

NLM's Online Playground: K-12 Health & Science Information Resources for Librarians, Teachers, Staff, Students & Parents

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Agenda

- Introduction and Overview
- Resources
 - MedlinePlus
 - Career
 - Medicine and Health
 - Environmental Health
 - Genomics/Genetics
 - Additional

Presentation resources

<https://nnlm.gov/pnr/training/presentations>

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NLM
NN/LM
What's the difference?





News & Announcements

- » [Dragonfly](#) (PNR blog)
- » [Bringing Health Information to the Community](#) (BHIC blog)
- » [PNR Rendezvous](#) Join our free monthly webcast series on **September 16**.
- » [PNR Partners](#) Join our webinar series showcasing the work of our funding recipients **November 12**.
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Quick Links

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National Network of Libraries of Medicine (NN/LM) Pacific Northwest Region



Supporting collaboration among regional libraries, information centers, and community-based organizations in the states of [Alaska](#), [Idaho](#), [Montana](#), [Oregon](#), and [Washington](#).

The mission of the NN/LM is to enhance access to biomedical and health information for researchers, health professionals and the public. Located at the University of Washington, the Regional Medical Library for the NN/LM Pacific Northwest Region offers education programs, funding, and consultation to support research, health information services, resource sharing, community partnerships, and outreach in the region.

If your institution is not a member learn more about the benefits of membership and join now!

JOIN THE NETWORK

Featured NLM Resource

What is LactMed?

The LactMed® database contains information on drugs and other chemicals to which breastfeeding mothers may be exposed. It includes information on the levels of such substances in breast milk and infant blood, and the possible adverse effects in the nursing infant. Suggested therapeutic alternatives to those drugs are provided, where appropriate. All data are derived from the scientific literature and fully referenced.

Updates: [LactMed](#) is updated monthly.





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NATIONAL NETWORK OF Libraries of Medicine Pacific Northwest Region

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MEMBERSHIP- FREE

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The mission of the NN/LM is to enhance access to biomedical and health information for researchers, health professionals and the public. Located at the University of Washington, the Regional Medical Library for the NN/LM Pacific Northwest Region offers education

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- [Provide Outreach](#)
- [What NN/LM PNR Can Do For You](#)
- [What You Can Do For Others](#)

Provide Outreach

The NN/LM PNR equips and encourages Network members to extend their services and expertise to groups, agencies, and institutions beyond their traditional reach. By developing and expanding collaborations, the Network works to accomplish its primary goals-to improve the public's access to health information to enable them to make informed decisions about their health, and to provide all health professionals with equal access to health information.

What NN/LM PNR Can Do For You

- Provide consultation and support for you to [partner and collaborate](#) with local and regional community to provide health information. Assist with [planning and evaluating](#) outreach.
- [Provide training and professional development opportunities](#) so you can update your skills or learn new techniques in providing health information. We use the training resources available to equip you to train your staff or clients regarding health information issues. Training sessions cover a range of topics from utilizing National Library of Medicine resources, evaluating health information for quality, and conducting outreach to measure your impact within your organization.
 - o [Training Resources you can use](#): including lesson plans, toolkits, brochures.
 - o Trainers from the [National Training Center and Clearinghouse](#) come to the Pacific Northwest on a regular basis to offer training. The schedule of these classes along with classes to request from PNR staff and many of our class materials is available on the [Training Center and Clearinghouse](#) website.
 - o Here is a [calendar of events](#) listing where regional NN/LM staff will be offering training sessions or staffing exhibits throughout the region.

- [Provide funding for health information outreach projects in your community.](#) To find out about funding opportunities visit this page, which

[Home](#)

Funding Opportunities and Resources

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- [PNR Awards 2011 - 2016](#)
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- [Grants and Support from the National Library of Medicine](#)

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PNR Awards 2011 - 2016

Each year, the PNR funds subcontracts and awards to support network members and encourage outreach activities aligned with the [NN/LM mission](#).

Available Awards	Purpose	Funding	Submit Intent to Apply By	Application Deadlines
Express Outreach	To improve use of quality online health information resources by priority populations, facilitate improved health literacy and to promote awareness and use of the products and services of the NLM and the NN/LM.	Up to \$15,000	N/A	Currently Closed
Medical Library Pilot Project	To recognize and support emerging roles of the information professional through pilot or demonstration projects that explore or demonstrate innovative roles within their institution.	Up to \$15,000	N/A	Currently Closed
Regional Symposia	To support Network members in planning and hosting regional symposia about issues and priorities of the NN/LM PNR Program.	Up to \$10,000	N/A	Currently Closed
Technology	To enhance the capacity of a library or community organization to offer electronic health information services by supporting the purchase,	Up to \$10,000	N/A	Currently Closed

OUTREACH & TRAINING

FUNDING

NLM K-12 Science and Health Education Resources

The screenshot shows the NLM Outreach Activities & Resources website. The header includes the U.S. Department of Health & Human Services logo, the website title "Outreach Activities & Resources" with the tagline "SPECIALIZED INFORMATION SERVICES", and the National Library of Medicine logo. Navigation links include "SIS Home", "About Us", "A-Z Index", "SIS News", and "Contact Us". A search bar and social media share button are also present.

The main content area is titled "K-12 Science and Health Education" and features a descriptive paragraph: "Working with teachers and scientific experts to provide FREE reliable resources to help introduce, reinforce, and supplement education programs." Below this is a "Get the latest news!" button and a vertical list of resource categories, each with a collapse icon:

- Biology
- Careers
- Disasters
- Environmental Health Science/Chemistry
- Forensics and Medical Technology
- Games
- General Health
- Genetics
- Health Information Tutorials
- HIV/AIDS
- Lesson Plans
- Projects
- Spanish-Language Resources

The left sidebar contains several sections:

- Outreach Projects**: Disaster Health, Environmental Health, Health Professionals, HIV/AIDS, Library Science, Minority and Ethnic Populations, Specific Populations, Students/Educators.
- Resource & Tools**: Funding Opportunities, Training Resources, Promotional Materials.
- About Us**: Outreach & Special Populations Branch, NLM Outreach Programs, Specialized Information Services Division, Staff Publications.
- Announcements**: See the Outreach Blog for the latest news!

At the bottom of the sidebar is a "Connect with NLM" button with social media icons. The footer states: "PDF documents can be viewed with the free Adobe® Reader".

Health Resources

How do you
search for
health
information?

Google



Google Search

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[Health Topics](#) [Drugs & Supplements](#) [Videos & Tools](#)

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Find information on health, wellness, disorders and conditions

 **Drugs & Supplements**
Learn about prescription drugs, over-the-counter medicines, herbs, and supplements

 **Videos & Tools**
Discover tutorials, health and surgery videos, games, and quizzes

 **Medical Encyclopedia**
Articles and images for diseases, symptoms, tests, treatments

Medical Dictionary from Merriam-Webster
Look up in Dictionary



Could your diet use a splash of color?
Our **Nutrition** page has ways to liven it up

1 2 3 4 ||

Today's Health News
[Could Lots of Time Spent on Social Media Be Tied to Depression?](#)
[Healthy Amount of Vitamin C Might Keep Cataracts at Bay](#)
[Kids' Fruit Drinks, Juices Contain Day's Worth of Sugar](#)
[More health news](#)

Clinical Trials
Search [ClinicalTrials.gov](#) for drug and treatment studies.

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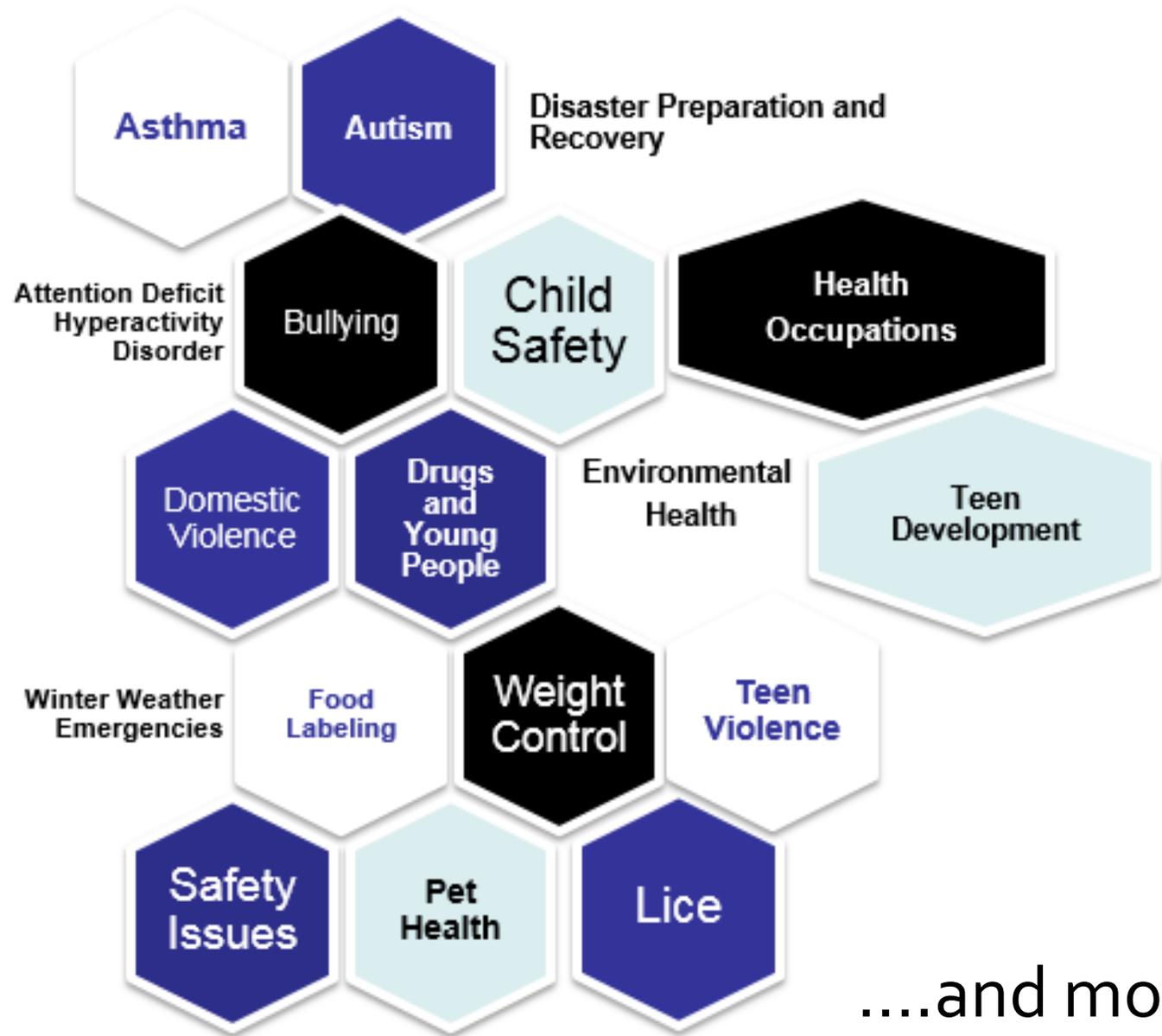
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MedlinePlus: Topics of Interest



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Learn about prescription drugs, over-the-counter medicines, herbs, and supplements

 **Videos & Tools**
Discover tutorials, health and surgery videos, games, and quizzes

 **Medical Encyclopedia**
Articles and images for diseases, symptoms, tests, treatments

Medical Dictionary from Merriam-Webster

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1 2 3 4 ||

Today's Health News

Melanoma Strikes Earlier If Indoor Tanning Begins in Teens

New Transplant Technique Might Free Type 1 Diabetics from Daily Injections

Seniors Need to Take Extra Care in The Cold

More health news

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U.S. National Library of Medicine 8600 Rockville Pike, Bethesda, MD 20894 U.S. Department of Health and Human Services National Institutes of Health FOIA USA.gov

Page last updated on 28 January 2016 URL for this page: <https://medlineplus.gov>



Health Topics Drugs & Supplements

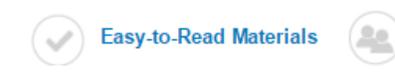
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Discover tutorials, health and surgery videos, games, and quizzes

Medical Encyclopedia
Articles and images for diseases, symptoms, tests, treatments

Medical Dictionary from Merriam-Webster
Look up in Dictionary



Health Topics Drugs & Supplements

Home → Search Results

Refine by Type

All Results (541)

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- External Health Links (446)
- Drugs and Supplements (6)
- Medical Encyclopedia (19)
- Videos and Tutorials (6)
- News (11)
- MedlinePlus Magazine (15)
- Other Resources (26)
- Multiple Languages (2)



Health Topics Drugs & Supplements

Home → Health Topics → Autism Spectrum

Autism Spectrum Disorder
Also called: ASD, Pervasive development

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Basics	Learn
<ul style="list-style-type: none"> Summary Start Here Latest News Symptoms Diagnosis and Tests Treatments and Therapies 	<ul style="list-style-type: none"> Living Related Special Genetics
Research	Resou
<ul style="list-style-type: none"> Statistics and Research Clinical Trials Journal Articles 	<ul style="list-style-type: none"> Find

Summary

Autism spectrum disorder (ASD) is a neuro... childhood and lasts throughout a person's... communicates, and learns. It includes wha... developmental disorders.

It is called a "spectrum" disorder because... with ASD might have problems talking with... them. They may also have restricted intere... putting things in order, or they may say th... be in their "own world."

At well-child checkups, the health care pro... signs of ASD, your child will have a compr... doing various tests and evaluations to ma...

The causes of ASD are not known. Resea... important roles.

There is currently no one standard treatme... ability to grow and learn new skills. Startin... behavior and communication therapies, sk...

Latest News

- More Evidence Preterm Birth Could Raise Autism Risk (01/21/2016, HealthDay)
- Study: Extremely Premature Babies At Greater Risk for Autism (12/28/2015, HealthDay)
- Scientists Link Brain Chemical to Autism (12/17/2015, HealthDay)
- More News on Autism Spectrum Disorder

Symptoms

- Signs and Symptoms of Autism (Centers for Disease Control and Prevention)

Diagnosis and Tests

- Autism Screening and Diagnosis (Centers for Disease Control and Prevention)

Treatments and Therapies

- Autism Spectrum Disorder (ASD): Treatment (Centers for Disease Control and Prevention)
- Medication Treatment (NIH) (National Institute of Child Health and Human Development)
- Therapies for Children With Autism Spectrum Disorder (Agency for Healthcare Research and Quality Available in Spanish)
- What Are the Treatments for Autism Spectrum Disorder (ASD)? (NIH) (National Institute of Child Health and Human Development Available in Spanish)

Living With

- Autism Spectrum Disorders (ASD) and Diet (Academy of Nutrition and Dietetics)
- Autism through the Lifespan (Autism Society)
- Family Issues (Autism Society)
- Occupational Therapy's Role with Autism (American Occupational Therapy Association) - PDF

Related Issues

- Asperger Syndrome and High Functioning Autism Tool Kit (Autism Speaks) - PDF
- Autism Spectrum Disorder (ASD): Related Topics (Centers for Disease Control and Prevention)
- Communication Problems in Children with Autism Spectrum Disorder (NIH) (National Institute on Deafness and Other Communication Disorders)
- Individualized Education Plans (IEPs) (For Parents) (Nemours Foundation Available in Spanish)
- Is There a Connection Between Vaccines and Autism? (Nemours Foundation Available in Spanish)
- Why Are Autism Spectrum Disorders Increasing? (Centers for Disease Control and Prevention)

Specifics

Diagnosis, Treatment & Research

Dan Marino Helping Those with Autism Spectrum Disorders

What Are Autism Spectrum Disorders (ASD)?

MedlinePlus links to health information from the National Institutes of Health and other federal government agencies. MedlinePlus also links to health information from non-government Web sites. See our disclaimer about external links and our quality guidelines.



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Discover tutorials, health surgery videos, games, and quizzes



Medical Encyclopedia
Articles and images for diseases, symptoms, test treatments



Medical Dictionary from Merriam-Webster
Look up in Dictionary

Easy-to-Read Materials



Home → Health Topics

Health Topics

Read about symptoms, causes, treatment and prevention. Health topics are regularly reviewed, and links are updated.

Find topics A-Z

- A
- B
- C
- D
- E
- F
- G
- H
- I
- J
- K

Body Location/Systems

-  Blood, Heart and Circulation
-  Bones, Joints and Muscles
-  Brain and Nerves
-  Digestive System
-  Ear, Nose and Throat
-  Endocrine System
-  Eyes and Vision
-  Immune System
-  Kidneys and Urinary System
-  Lungs and Breathing
-  Mouth and Teeth
-  Skin, Hair and Nails
-  Female Reproductive System
-  Male Reproductive System

Home → Health Topics → Children and Teenagers

Children and Teenagers

- Abuse *see* [Child Abuse](#)
- Acromegaly *see* [Growth Disorders](#)
- ADD *see* [Attention Deficit Hyperactivity Disorder](#)
- Adenoidectomy *see* [Tonsils and Adenoids](#)
- Adenoids *see* [Tonsils and Adenoids](#)
- ADHD *see* [Attention Deficit Hyperactivity Disorder](#)
- Adolescent Development *see* [Teen Development](#)
- Adolescent Health *see* [Teen Health](#)
- Adolescent Pregnancy *see* [Teenage Pregnancy](#)
- Adoption
- Alcohol and Youth *see* [Underage Drinking](#)
- Asperger Syndrome *see* [Autism Spectrum Disorder](#)
- Asthma in Children
- Attention Deficit Hyperactivity Disorder
- Autism *see* [Autism Spectrum Disorder](#)
- Autism Spectrum Disorder**
- Baby Care *see* [Infant and Newborn Care](#)
- Baby Health Checkup
- Bedwetting
- Birth Injuries *see* [Childbirth Problems](#)
- Birth Weight
- Body Art *see* [Piercing and Tattoos](#)
- Bronchitis *see* [Respiratory Syncytial Virus Infections](#)
- Bullying
- Cancer in Children

Home → Health Topics → Autism Spectrum Disorder

Autism Spectrum Disorder

Also called: ASD, Pervasive developmental disorder (PDD)

On this page

Basics <ul style="list-style-type: none"> • Summary • Start Here • Latest News • Symptoms • Diagnosis and Tests • Treatments and Therapies 	Learn More <ul style="list-style-type: none"> • Living With • Related Issues • Specifics • Genetics 	See, Play and Learn <ul style="list-style-type: none"> • Health Check Tools
Research <ul style="list-style-type: none"> • Statistics and Research • Clinical Trials • Journal Articles 	Resources <ul style="list-style-type: none"> • Find an Expert 	For You <ul style="list-style-type: none"> • Children • Teenagers • Patient Handouts

Summary

Autism spectrum disorder (ASD) is a neurological and developmental disorder that begins early in childhood and lasts throughout a person's life. It affects how a person acts and interacts with others, communicates, and learns. It includes what used to be known as Asperger syndrome and pervasive developmental disorders.

It is called a "spectrum" disorder because people with ASD can have a range of symptoms. People with ASD might have problems talking with you, or they might not look you in the eye when you talk to them. They may also have restricted interests and repetitive behaviors. They may spend a lot of time putting things in order, or they may say the same sentence again and again. They may often seem to be in their "own world."

At well-child checkups, the health care provider should check your child's development. If there are signs of ASD, your child will have a comprehensive evaluation. It may include a team of specialists, doing various tests and evaluations to make a diagnosis.

The causes of ASD are not known. Research suggests that both genes and environment play important roles.

There is currently no one standard treatment for ASD. There are many ways to increase your child's ability to grow and learn new skills. Starting them early can lead to better results. Treatments include behavior and communication therapies, skills training, and medicines to control symptoms.



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MEDICAL ENCYCLOPEDIA

- [Asperger syndrome](#)
- [Autism](#)
- [Childhood disintegrative disorder](#)

Related Health Topics

- [Child Behavior Disorders](#)
- [Child Development](#)
- [Fragile X Syndrome](#)

National Institutes of Health

Children's Health

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Children's Health



On this page

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Research <ul style="list-style-type: none">Statistics and ResearchClinical TrialsJournal Articles	Resources <ul style="list-style-type: none">Reference DeskFind an ExpertFinance and Policy	For You <ul style="list-style-type: none">Patient Handouts

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Teen Health

Also called: Adolescent health



On this page

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Research <ul style="list-style-type: none">Statistics and ResearchClinical TrialsJournal Articles	Resources <ul style="list-style-type: none">Reference DeskFind an Expert	For You <ul style="list-style-type: none">No links available

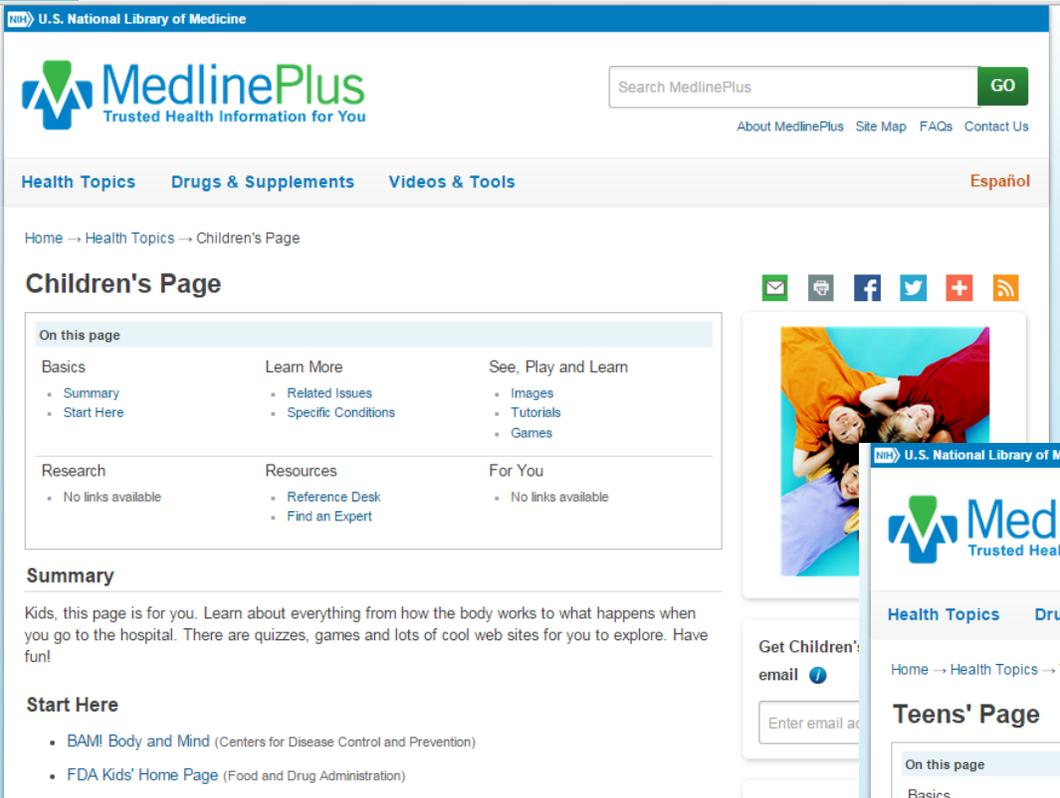
Summary

As a teenager, you go through many changes. Your body is on its way to becoming its adult size. You may notice that you can't fit into your old shoes or that your jeans are now 3 inches too short. Along with these changes, you are probably becoming more independent and making more of your own

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For Children



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Children's Page

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On this page

Basics <ul style="list-style-type: none">SummaryStart Here	Learn More <ul style="list-style-type: none">Related IssuesSpecific Conditions	See, Play and Learn <ul style="list-style-type: none">ImagesTutorialsGames
Research <ul style="list-style-type: none">No links available	Resources <ul style="list-style-type: none">Reference DeskFind an Expert	For You <ul style="list-style-type: none">No links available

Summary

Kids, this page is for you. Learn about everything from how the body works to what happens when you go to the hospital. There are quizzes, games and lots of cool web sites for you to explore. Have fun!

Start Here

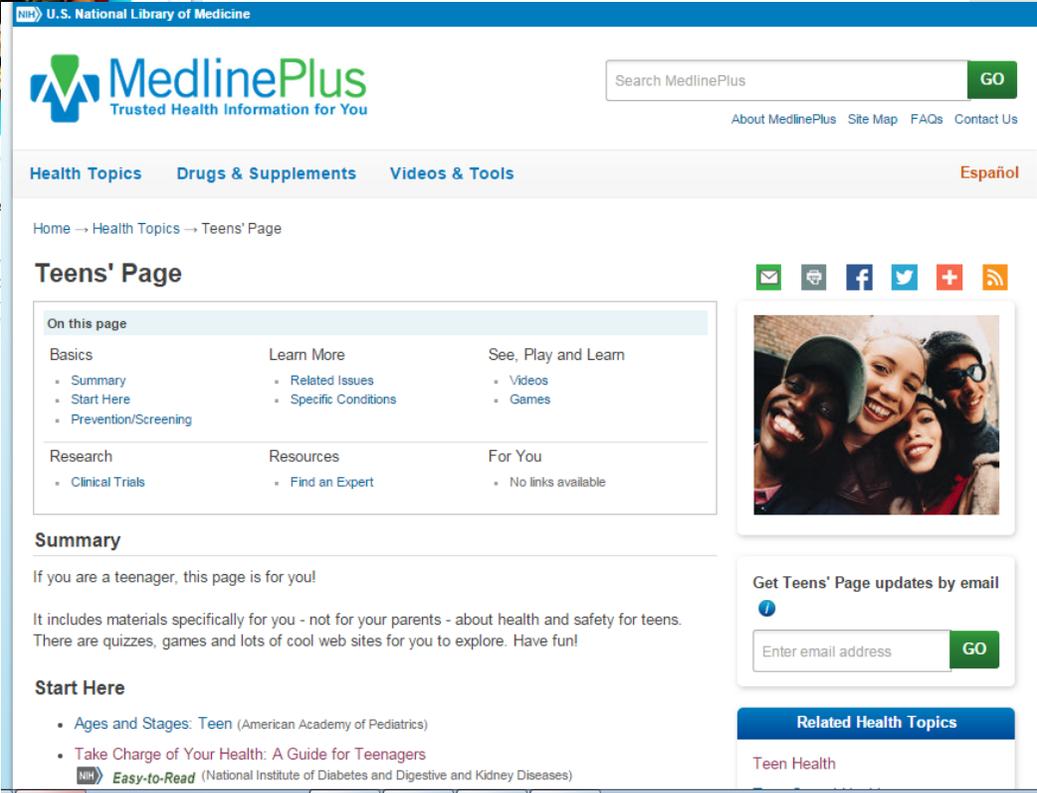
- [BAM! Body and Mind](#) (Centers for Disease Control and Prevention)
- [FDA Kids' Home Page](#) (Food and Drug Administration)

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On this page

Basics <ul style="list-style-type: none">SummaryStart HerePrevention/Screening	Learn More <ul style="list-style-type: none">Related IssuesSpecific Conditions	See, Play and Learn <ul style="list-style-type: none">VideosGames
Research <ul style="list-style-type: none">Clinical Trials	Resources <ul style="list-style-type: none">Find an Expert	For You <ul style="list-style-type: none">No links available

Summary

If you are a teenager, this page is for you!

It includes materials specifically for you - not for your parents - about health and safety for teens. There are quizzes, games and lots of cool web sites for you to explore. Have fun!

Start Here

- [Ages and Stages: Teen](#) (American Academy of Pediatrics)
- [Take Charge of Your Health: A Guide for Teenagers](#)
- [Easy-to-Read](#) (National Institute of Diabetes and Digestive and Kidney Diseases)

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Related Health Topics

[Teen Health](#)



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[Home](#) → [Drugs, Herbs and Supplements](#)

Drugs, Herbs and Supplements

[Drugs](#)



Pillbox rapid identification, reliable information

Drug Information

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Complementary and
Integrative Health**

NIH...Turning Discovery Into Health

[Home](#) [Health Info](#) [Research](#)

Herbs at a Glance

U.S. Food and Drug Administration
Protecting and Promoting *Your* Health



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Videos & Tools



Watch health videos on topics such as anatomy, body systems, and surgical procedures. Test your knowledge with interactive tutorials and games. Check your health with calculators and quizzes.



Health Videos

View videos of anatomy and body systems and how diseases and conditions affect them.



Surgery Videos

Find videos of operations and surgical procedures.



Health Check Tools

Check your health with interactive calculators, quizzes and questionnaires.



Games

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Information for Librarians and Trainers



The goal of MedlinePlus is to bring appropriate, authoritative health information to those who need it. We appreciate your efforts in training people on how to use MedlinePlus. Here are some training resources which might help you with your classes and health fairs.

Resources for Teaching MedlinePlus

MedlinePlus Tour

- [MedlinePlus Tour in English and Spanish](#) - A narrated tour of the main features of MedlinePlus. The video runs about 2.5 minutes.

MedlinePlus Brochures

- [MedlinePlus PDF Brochure - in English](#) (updated May 2015) and [Spanish](#) (updated May 2015)
- [MedlinePlus PDF Brochure in Creole](#) (updated October 2010)
- [MedlinePlus for Health Professionals PDF Brochure](#) (updated July 2015)
- [MedlinePlus Connect PDF Brochure](#) (updated June 2014)
- [MedlinePlus XML Data Sources PDF Brochure](#) (updated December 2013)

About MedlinePlus

- [Articles about MedlinePlus](#)
- [Citing MedlinePlus FAQ](#)
- [E-mail Updates](#) – Sign up to receive emails containing links to new topics, new sites, and health news.
- [MedlinePlus FAQs](#)
- [MedlinePlus Quality Guidelines](#)
- [MedlinePlus Search Tips](#)

Resources for Teaching How to Find Health Information Online

General

- [Evaluating Internet Health Information: A Tutorial from the National Library of Medicine](#) (download)
- [Finding Accurate and Reliable Health Information on the Internet - PDF](#) (University of Minnesota Health Sciences Libraries)
- [Finding Quality Health Information on the Web: A Tool Kit](#) (University of Washington Center for Public Health Nutrition)
- [MedlinePlus Guide to Healthy Web Surfing](#)
- [MedlinePlus Page: Evaluating Health Information](#)
- [MedlinePlus Page: Understanding Medical Research](#)

MedlinePlus





NIH National Library of Medicine

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Joined March 2009

332 Photos and videos



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MedlinePlus.gov @medlineplus · 59m
People 60 years or older should get the #shingles vaccine. Learn more details from @CDCgov: 1.usa.gov/1JyjDcl



MedlinePlus.gov @medlineplus · 19h
New study suggests using tanning beds at a young age significantly raises risk of

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- #FridayFeeling
- Nemanja Vidic
- #FlashbackFriday
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- Murray
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NLM K-12 Twitter & Newsletter



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Health and science education resources for teachers. From the National Library of Medicine. RT are not endorsements. NLM Privacy Policy: 1.usa.gov/yyhu2Q

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14 Photos and videos

Tweets Tweets & replies Photos & videos

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NLM K12 Sci Edu @NLM_K12 · Jan 28
Attn Teachers! A witty animation to engage students about the topic Mercury. #mercury #science go.usa.gov/cEbDA

NLM K12 Sci Edu @NLM_K12 · Jan 23
K12 teachers here is an animation that explains #lead exposure "Silent but Deadly": go.usa.gov/cUmMQ #Flint

NLM K12 Sci Edu @NLM_K12 · Jan 23
Want to make science relatable to students? This lesson plan on bottle water vs tap water in schools can help! go.usa.gov/3xQ9Q

NLM K12 Sci Edu @NLM_K12 · Jan 22
Teaching about runoff, impervious surfaces and smart development? Here's a lesson plan on it go.usa.gov/3xQ83

NLM K12 Sci Edu @NLM_K12 · Jan 22
Keep your students safe! Share this information on carbon monoxide. go.usa.gov/cPY4d #carbonmonoxide #snow

NLM K12 Sci Edu @NLM_K12 · Jan 22
How can #Methane affect my health? Los Angeles residents find out

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Education Connection

Working with teachers and scientific experts to provide FREE reliable resources for the classroom

Bring Gaming to Your Science Classroom

The use of gaming in the classroom provides a new medium for teachers to introduce or reinforce key concepts in the curriculum. How to incorporate this new medium seems to have taken online webinars for teachers by storm. Yet are there enough online games that both engage students and provide a real opportunity to learn? Over the summer, the NLM had the opportunity to work with a high school teacher to create two pilot iOS game apps. This was our first attempt to map a gaming app to curriculum objectives taught in high school science. Both games include attractive game design and interactive gameplay, and offer teachers the opportunity to "pause" the game at various times for "teachable moments". Your students will love taking a break from whiteboards and lectures to try their hand at these fun yet educational games.

Bohr Thru: A trip through the first 18 elements
In this game, students become familiar with the number of protons, neutrons, and electrons necessary to build each of the first 18 elements. With the help of "Atom", the game's main character, students learn fun and interesting facts about the chemical elements. To reinforce content during game play, students can earn "power-ups" when they successfully add electrons to complete Bohr Models for an element. Click [here](#) to download this FREE app!

Base Chase: "A" is to "T" as "G" is to "C"
The basic goal of this game is to reinforce matching bases and the importance these pairs play in the development of a species DNA. The game uses a jumping mechanic to collect different animals found within the African Savanna. After a player has matched enough DNA the animal appears along with "DeeNA", a whimsical DNA strand character that delivers important information concerning DNA. Click [here](#) to download this FREE app!

In addition to these two games, a third game created for our K-12 community involves the reinforcement of concepts that relate to greenhouse gas reduction, the use of renewable energies, and the value of green product purchases.

About Us

The NLM K-12 team is part of the National Library of Medicine Outreach and Special Populations Branch. Teachers and students have been identified as a special population group that can benefit from the science and health information we provide. If you have questions regarding our outreach effort to this community or any other outreach effort, please contact us at: tehp@tehn.nlm.nih.gov

Meet the K-12 Team

Gale Dutcher
Janice Kelly
All Keselman

MedlinePlus

The screenshot shows the MedlinePlus website interface. At the top left is the MedlinePlus logo with the tagline "Trusted Health Information for You". To the right is a search bar with the text "Search MedlinePlus" and a green "GO" button. Below the search bar are links for "About MedlinePlus", "Site Map", "FAQs", and "Contact Us". A navigation bar contains "Health Topics", "Drugs & Supplements", "Videos & Tools", and "Español". The breadcrumb trail reads "Home → Health Topics → School Health". The main heading is "School Health". Below it is a table of contents with three columns: "On this page", "Learn More", and "See, Play and Learn". The "On this page" column lists "Basics" (Summary, Start Here, Latest News, Prevention and Risk Factors), "Research" (Statistics and Research, Journal Articles), "Resources" (Find an Expert), and "For You" (Children, Teenagers). The "Learn More" column lists "Related Issues" and "Specifics". The "See, Play and Learn" column lists "No links available". To the right of the table of contents is a red circle highlighting social media sharing icons for email, print, Facebook, Twitter, Google+, and RSS. Below the icons is a photo of a classroom. To the right of the photo is a sign-up box for "Get School Health updates by email" with an "Enter email address" field and a "GO" button. Below that is a "Related Health Topics" section with links for "Bullying", "Child Safety", and "College Health". At the bottom right is an "NIH MedlinePlus Magazine" section with a link for "Asthma and Schools". The main content area has a "Summary" section with the text: "Your child spends more time at school than anywhere else except home. Schools can have a major effect on children's health. Schools can teach children about health, and promote healthy behaviors. Physical education classes give children a chance to get exercise." Below the summary is a section titled "Schools work to" with a bulleted list: "Prevent risky behaviors such as alcohol and tobacco use, or bullying", "Encourage healthy habits like exercise and healthy eating", and "Deal with specific health problems in students, such as asthma, obesity and infectious diseases". Below the list is the text: "The school building and environment should be a safe and healthy place for your child." At the bottom is a "Start Here" section with a bulleted list: "New! Healthy Schools (Centers for Disease Control and Prevention)" and "Safe Youth. Safe Schools. (Centers for Disease Control and Prevention)".

Home → Health Topics → School Health

School Health

On this page

Basics <ul style="list-style-type: none">SummaryStart HereLatest NewsPrevention and Risk Factors	Learn More <ul style="list-style-type: none">Related IssuesSpecifics	See, Play and Learn <ul style="list-style-type: none">No links available
Research <ul style="list-style-type: none">Statistics and ResearchJournal Articles	Resources <ul style="list-style-type: none">Find an Expert	For You <ul style="list-style-type: none">ChildrenTeenagers

Summary

Your child spends more time at school than anywhere else except home. Schools can have a major effect on children's health. Schools can teach children about health, and promote healthy behaviors. Physical education classes give children a chance to get exercise.

Schools work to

- Prevent risky behaviors such as alcohol and tobacco use, or bullying
- Encourage healthy habits like exercise and healthy eating
- Deal with specific health problems in students, such as asthma, obesity and infectious diseases

The school building and environment should be a safe and healthy place for your child.

Start Here

- New!** [Healthy Schools](#) (Centers for Disease Control and Prevention)
- [Safe Youth. Safe Schools.](#) (Centers for Disease Control and Prevention)

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Related Health Topics

- [Bullying](#)
- [Child Safety](#)
- [College Health](#)

NIH MedlinePlus Magazine

- [Asthma and Schools](#)

Using This Information

Flu

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Home → Health Topics → Flu

Flu

Also called: Gripe, Influenza

[Email](#) [Print](#) [Facebook](#) [Twitter](#) [Plus](#) [RSS](#)

On this page

Basics <ul style="list-style-type: none">SummaryStart HereLatest NewsSymptomsDiagnosis and TestsPrevention and Risk FactorsTreatments and Therapies	Learn More <ul style="list-style-type: none">Living WithRelated IssuesSpecifics	See, Play and Learn <ul style="list-style-type: none">ImagesHealth Check Tools
Research <ul style="list-style-type: none">Statistics and ResearchClinical TrialsJournal Articles	Resources <ul style="list-style-type: none">Find an Expert	

Summary

Flu is a respiratory infection caused by a number of viruses. The viruses enter your body through your nose or mouth. Between 5% and 20% of people get the flu each year. The flu can be serious or even deadly for elderly people, newborns, and people with chronic illnesses.

Symptoms of the flu come on suddenly and are worse than those of a cold. Symptoms include:

- Body or muscle aches
- Chills



ADAM

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FLU.GOV

Know what to do about the flu.

[Symptoms & Treatment](#) | [Prevention & Vaccination](#) | [Who's At Risk](#) | [About the Flu](#) | [Planning & Preparedness](#) | [Pandemic Awareness](#)

Flu Symptoms & Severity



The flu is different from a cold and can cause mild to severe illness. Most people will recover from the flu in less than 2 weeks, but some will develop complications. [Learn more about flu symptoms and those who are at high risk from the flu.](#)

Avian Flu in Poultry



- [Current threat to poultry in the US \(USDA\)](#)
- [Avian flu in birds \(CDC\)](#)
- [Avian flu surveillance and preparedness \(USDA\)](#)

About the Flu (CDC)



- [When is flu season? \(CDC\)](#)
- [How do I protect myself from the flu?](#)
- [What are the symptoms? \(CDC\)](#)

Children & Infants (CDC)



- [Why are children at high risk? \(CDC\)](#)
- [Nasal spray vaccine in children 2-8 years old \(CDC\)](#)
- [Where can I get the vaccine?](#)

Pregnant Women (CDC)



- [What you need to know about the flu \(CDC\)](#)
- [Preventing the flu during your pregnancy \(CDC\)](#)
- [How would you know if you have the flu? \(CDC\)](#)

Using This Information

Athletic Injuries

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Home → Health Topics → Head Injuries

Head Injuries

Also called: Cranial injuries, Skull fractures, Skull injuries





On this page	Learn More	See, Play and Learn
<ul style="list-style-type: none">Basics<ul style="list-style-type: none">SummaryStart HereDiagnosis and TestsPrevention and Risk FactorsTreatments and Therapies	<ul style="list-style-type: none">Specifics	<ul style="list-style-type: none">Health Check Tools
<ul style="list-style-type: none">Research<ul style="list-style-type: none">Statistics and ResearchClinical TrialsJournal Articles	<ul style="list-style-type: none">Resources<ul style="list-style-type: none">Find an Expert	<ul style="list-style-type: none">For You<ul style="list-style-type: none">ChildrenTeenagersPatient Handouts

Summary

Chances are you've bumped your head before. Usually, the injury is minor because your skull is hard and it protects your brain. But other head injuries can be more severe, such as a skull fracture, concussion, or traumatic brain injury.

Head injuries can be open or closed. A closed injury does not break through the skull. With an open, or penetrating, injury, an object pierces the skull and enters brain tissue. Closed injuries are not always less severe than open injuries.

Some common causes of head injuries are falls, motor vehicle accidents, violence, and sports injuries.

It is important to know the warning signs of a moderate or severe head injury. Get help immediately if the injured person has

- A headache that gets worse or does not go away
- Repeated vomiting or nausea
- Convulsions or seizures
- An inability to wake up
- Dilation of one or both pupils of the eyes
- Slurred speech
- Weakness or numbness in the arms or legs
- Loss of coordination
- Increased confusion, restlessness, or agitation

Related Health Topics

- Concussion
- Traumatic Brain Injury

MedlinePlus links to information from the

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Home → Health Topics → Sports Injuries

Sports Injuries





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Summary

Exercising is good for you, but sometimes you can injure yourself when you play sports or exercise. Accidents, poor training practices, or improper gear can cause them. Some people get hurt because they are not in shape. Not warming up or stretching enough can also lead to injuries.

The most common sports injuries are

- Sprains and strains
- Knee injuries
- Swollen muscles
- Achilles tendon injuries
- Pain along the shin bone
- Rotator cuff injuries
- Fractures
- Dislocations

If you get hurt, stop playing. Continuing to play or exercise can cause more harm. Treatment often begins with the RICE (Rest, Ice, Compression, and Elevation) method to relieve pain, reduce swelling, and speed healing. Other possible treatments include pain relievers, keeping the injured area from moving, rehabilitation, and sometimes surgery.

NIH: National Institute of Arthritis and Musculoskeletal and Skin Diseases

Start Here

MEDICAL ENCYCLOPEDIA

- Achilles tendon repair
- ACL reconstruction
- Acute mountain sickness
- Back pain and sports
- Concussion 
- How to avoid exercise injuries
- Lactic acidosis
- Medial epicondylitis - golfer's elbow
- Osgood-Schlatter disease
- Returning to sports after a back injury

Using This Information

Internet Safety

NIH U.S. National Library of Medicine

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Health Topics Drugs & Supplements Videos & Tools **Español**

Home → Health Topics → Internet Safety

Internet Safety

Summary

For most kids and teens, technology is an important part of their lives. They browse the Web for information, use social networking sites, text, and chat. But there can also be dangers, and it is important for parents to monitor their children's use and teach them how to be safe online:

- Never give out personal information, such as your full name, address, phone number, or school name
- Tell an adult if any communication (chat, text, e-mail message) makes you feel threatened or uncomfortable
- Never send sexually explicit photographs or messages
- On social networking sites, use privacy controls and only friend people that you know

Of course, some of this advice is good for adults, too.

Latest News

- Kids Find Help for Anorexia More Often Than 'Pro-Ana' Posts on YouTube (12/16/2015, HealthDay)

Resources

- Chat, E-Mail, Web, and Chat Room Slang and Acronyms (American Academy of Pediatrics)
- Cyberbullying (Health Resources and Services Administration)
- Cyberbullying (National Crime Prevention Council)
- Friend Finder (Federal Trade Commission)
- Net Cetera: Chatting with Kids about Being Online (Federal Trade Commission) - PDF
- Parent's Guide to Internet Safety (Federal Bureau of Investigation)
- Sexting: What Parents Need to Know (Nemours Foundation)
- Talking to Kids and Teens About Social Media and Sexting (American Academy of Pediatrics)
- Teaching Kids to Be Smart About Social Media (Nemours Foundation)
- Understanding Mobile Apps (Federal Trade Commission)

Journal Articles

References and abstracts from MEDLINE/PubMed (National Library of Medicine)



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STOP THINK CONNECT

Avoid Scams Secure Your Computer Protect Kids Online Be Smart Online Video and Media OnGuard Online Blog

Blog

Report identity theft and get a personal recovery plan at IdentityTheft.gov

January 28, 2016
by Nicole Fleming
Consumer Education Specialist, FTC

Millions of people are affected by identity theft each year. It might start with a mysterious credit card charge, a bill you don't recognize, or a letter from the IRS that says you already got your refund — even though you didn't.

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- ▶ Securing Your Wireless Network
- ▶ Malware

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Bullying

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Bullying

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Summary

Bullying is when a person or group repeatedly tries to harm someone who is weaker or who they think is weaker. Sometimes it involves direct attacks such as hitting, name calling, teasing or taunting. Sometimes it is indirect, such as spreading rumors or trying to make others reject someone.

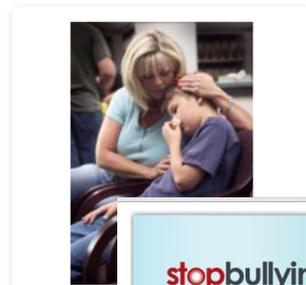
Often people dismiss bullying among kids as a normal part of growing up. But bullying is harmful. It can lead children and teenagers to feel tense and afraid. It may lead them to avoid school. In severe cases, teens who are bullied may feel they need to take drastic measures or react violently. Others even consider suicide. For some, the effects of bullying last a lifetime.

Centers for Disease Control and Prevention

Start Here

- [Bullying](#) (National Institute of Child Health and Human Development)
- [Bullying: It's Not OK](#) (American Academy of Pediatrics)
- [Dealing with Bullies](#) (Nemours Foundation)
Available in Spanish
- [Helping Kids Deal with Bullies](#) (Nemours Foundation)
Available in Spanish
- [What Is Bullying?](#) (Health Resources and Services Administration)

Latest News



stopbullying.gov

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SEARCH

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[CYBER BULLYING](#)
[WHO IS AT RISK](#)
[PREVENT BULLYING](#)
[RESPOND TO BULLYING](#)
[GET HELP NOW](#)

FEATURES

- New Blog
- Report Cyberbullying
- KnowBullying App
- Be More Than a Bystander

Bullying Performance Measures Selected by 17 States and Jurisdictions in MCH Block Grant Program

Report Cyberbullying When It Happens

[Child Mental](#)
[School Health](#)
[Teen Mental](#)
[Teen Violence](#)

WHAT YOU CAN DO

MedlinePlus information from the National Institutes of Health and other federal government Web sites. See external link guidelines.

Parents
 Educators
 Community
 Teens
 Kids

UPDATES

January 14, 2016
[Bullying Can Happen Anywhere – Online and Offline](#)

December 9, 2015
[Bullying Performance Measure Selected by Seventeen States and Jurisdictions in MCH Block Grant Program](#)

STATE POLICIES & LAWS

Find your state or territory

Using This Information

Nutrition

Child Nutrition



On this page

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Learn More

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See, Play and Learn

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Research

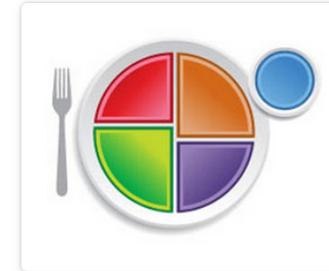
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- Clinical Trials
- Journal Articles

Resources

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- Find an Expert
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For You

- Children
- Teenagers
- Patient Handouts



Get Child Nutrition updates by

Summary

A healthy diet helps children grow and learn. It also helps prevent obesity and chronic diseases, such as diabetes. To give your child a nutritious diet

- Make half of what is on your child's plate fruits and vegetables
- Choose healthy sources of protein, such as lean meat, nuts, and fish
- Serve whole-grain breads and cereals because they are high in fiber
- Broil, grill, or steam foods instead of frying them
- Limit fast food and junk food
- Offer water or milk instead of sugary fruit drinks and sodas

Learn about your children's nutrient requirements. Some of them, such as iron and calcium, change as your child ages.

NIH: National Institute of Diabetes and Digestive and Kidney Diseases

Start Here

- [Health and Nutrition Information for Preschoolers](#) (Department of Agriculture)
- [Healthy Eating](#) (Nemours Foundation)
Available in Spanish
- [Helping Your Child: Tips for Parents](#) (National Institute of Diabetes and Digestive and Kidney Diseases)

USDA ChooseMyPlate.gov
United States Department of Agriculture

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TEACHERS

PROFESSIONALS

- Community Partners
- National Strategic Partners
- Teachers**
- MyPlate Graphics
- Health Professionals

CHILDREN

- STUDENTS
- ADULTS

Preschoolers (2-5 yrs)

Parents and caregivers of children 2-5 years old can explore ways to help preschoolers grow up healthy, play actively every day, develop healthy eating habits, try new foods, and more.

Kids (6-11 yrs)

Offering science-based advice, MyPlate Kids' Place can help kids build healthy meals and to maintain or achieve a healthy weight. Parents and teachers are invited to use the MyPlate Kids' Place Resources for Parents and Educators for "teachable moments" that will influence children's choices at home and at school. More materials for kids and parents with kids can be found on the Team Nutrition website.

High School Students

The SuperTracker Nutrition Lesson Plans for High School Students is a series of lesson plans designed to help high school students learn how to build a healthy diet using SuperTracker. Each lesson plan includes learning objectives, detailed instructions, and accompanying resources and handouts.

Using This Information

Teen Mental Health

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National Institutes of Health

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Health Topics Drugs & Supplements Videos & Cool Tools ESPAÑOL

Other Topics: A B C D E F G H I J K L M N O P Q R S T U V W XYZ All Topics

Teen Mental Health

Being a teenager is hard. You're under stress to be liked, do well in school, get along with your family, and make big decisions. You can't avoid most of these pressures, and worrying about them is normal. But feeling very sad, hopeless or worthless could be warning signs of a mental health problem.

Mental health problems are real, painful, and sometimes severe. You might need help if you have the signs mentioned above, or if you

- Often feel very angry or very worried
- Feel grief for a long time after a loss or death
- Think your mind is controlled or out of control
- Use [alcohol](#) or [drugs](#)
- Exercise, [diet and/or binge-eat obsessively](#)
- Hurt other people or destroy property
- Do reckless things that could harm you or others

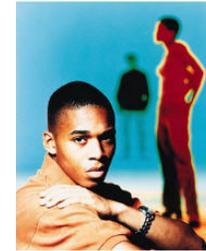
Mental health problems can be treated. To find help, talk to your parents, school counselor, or health care provider.

Get Teen Mental Health updates by email Enter email address GO [What's this?](#)

Start Here

- [Understanding Your Teen's Emotional Health](#) (American Academy of Family Physicians)
Also available in [Spanish](#)

Basics | Learn More | Multimedia & Cool Tools



MEDICAL ENCYCLOPEDIA

[Helping your teen with depression](#)

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Substance Abuse and Mental Health Services Administration

SAMHSA

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Topics » **School and Campus Health** » Information for Educators, Students, Parents, and Families

School and Campus Health

Substance Use and Mental Health

SAMHSA's Efforts

Information for Educators, Students, and Parents

Grants

Publications and Resources

Information for Educators, Students, Parents, and Families

SAMHSA works to increase awareness of behavioral health issues among educators, students, parents, and families by providing helpful information and resources.

Educators

While schools provide a number of programs and activities to promote emotional health and prevent substance use among students, they face unprecedented behavioral health challenges. SAMHSA provides helpful information and resources for a variety of educational settings:

- The [Safe Schools/Healthy Students Initiative Road to Success DVD – 2007](#) tours four grant sites across the country and provides success stories about creating sustainable positive and healthy changes among children, youth, and families.
- [Preventing Suicide: A Toolkit for High Schools – 2012](#) assists high school districts in designing and implementing

SAFE SCHOOLS HEALTHY STUDENTS

talk they hear you Underage Drinking Prevention

Data and Statistics

- » [SAMHSA Data: Adolescents](#)
- » [SAMHSA Data: Youth \(under 18 years of age\)](#)
- » [SAMHSA Data: Young Adults \(18-24\)](#)

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Disaster Planning

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Health Topics

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Disaster Preparedness

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 - Journal Articles

Summary

Preparing for a disaster can help you be a natural disaster, like a hurricane, bioterrorist attack or chemical disaster. You should also know how to treat basic medical problems like flood insurance.

No matter what kind of disaster, recovery can take time.

Federal Emergency Management Agency

Start Here

- Are You Ready? (Department of Homeland Security) Available in Spanish
- Disaster Recovery

Latest News

- Pediatricians' Guide to Disaster Preparedness

Related Issues

- Clean Hands Save Lives

Ready
Prepare. Plan. Stay Informed.

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BE A HERO!

MAKE A PLAN / BUILD A KIT / KNOW THE FACTS / GET INVOLVED



KIDS

Play games and test your knowledge!



PARENTS

Get the whole family involved in preparing!



Disasters affect everyone. And so it takes everyone - youth, parents, and community members - to help prepare.



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Piercing and Tattoos

Also called: Body art, Body piercing



Piercings and tattoos are body decorations that go back to ancient times. Body piercing involves making a hole in the skin so that you can insert jewelry. This is often in the earlobe, but can be in other parts of the body. Tattoos are designs on the skin made with needles and colored ink. A permanent tattoo is meant to last forever. Permanent makeup is a type of tattoo.

The health risks of piercings and tattoos include

- Allergic reactions
- Keloids, a type of scar that grows beyond the boundaries of the original wound
- Infections, such as hepatitis B and C

To reduce the risks, make sure the piercer has a good reputation. Proper sterilization of the equipment and instructions on caring for your skin are important.

Holes from piercing usually close up on their own. To remove tattoos, but it's painful and expensive.

Get Piercing and Tattoos updates by email

Start Here

- [Body Piercing](#) (American Academy of Dermatology)
- Also available in [Spanish](#)
- [Think Before You Ink: Are Tattoos Safe?](#) (NIH)

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Among High School Seniors, Driving After Marijuana Use Surpasses Drunk Driving

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NIDA Notes

July 10, 2014

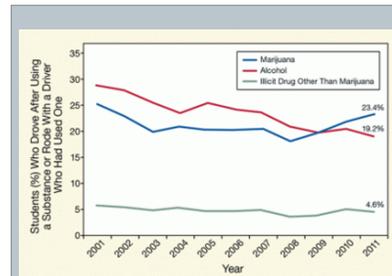
By Eric Sarlin, M.Ed., M.A., NIDA Notes Contributing Writer

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Nearly 1 in 6 high school seniors who responded to a 2011 survey reported that, within the past 2 weeks, they had driven a motor vehicle after using an illicit drug or drinking heavily. Nearly 1 in 4 said they had recently ridden in a car with such a driver. Altogether 28 percent had put themselves at risk, within that short time frame, by being in a vehicle whose driver had been using marijuana or another illicit drug, or had drunk 5 or more alcoholic drinks. These rates had all risen nearly 20 percent in only 4 years, due almost entirely to an increase in driving after smoking marijuana.



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E-Cigarettes

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About E-Cigarettes

E-cigarettes are being marketed as a safe alternative to smoking. But they're not because e-cigarettes are still putting nicotine — a highly addictive drug — into the body.

Lea este artículo en Español

Electronic cigarettes are battery-powered smoking devices often designed to look and feel like regular cigarettes. They use cartridges filled with a liquid that contains nicotine, flavorings, and other chemicals. A heating device in the e-cigarette converts the liquid into a vapor, which the person inhales. That's why using e-cigarettes is known as "vaping."

Because e-cigarettes don't burn tobacco, people don't inhale the same amounts of tar and carbon monoxide as with a regular cigarette. But anyone using an e-cigarette still gets an unhealthy dose of nicotine and other chemicals.

Electronic cigarettes started out being marketed to smokers as a way to help them quit. Now that e-cigarettes have gone mainstream, regulators and scientists are taking note. Expect to see more information coming out about e-cigarettes and their health effects.

The Risks

E-cigarettes don't fill the lungs with harmful smoke, but that doesn't make them a healthy alternative to regular cigarettes.

Anyone who uses ("vapes") an e-cigarette is still putting nicotine — which is absorbed through the lungs — into his or her system. Besides being an addictive drug, nicotine is also toxic in high doses. It was once even used as an insecticide.

Peer Tutor Project

Vital Information for a Virtual Age!

iVIVA!

A PEER TUTOR PROJECT

September 12, 2015



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History	To create student-centered programs for community health outreach.
Activities	We offer free support for those starting new peer tutoring programs that seek to partner teachers and high school students and wish to learn from the experiences of others.
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Publications	
Awards	Download our recently updated Implementation Guide!

AWARDS

- 2003 Texas Library Association Project of the Year
- 2003 HOSA Student community awareness project
- 2006 National School Library Media Program of the Year

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Health Occupations

Also called: [Health careers](#), [Health professions](#), [Medical occupations](#), [Medical professions](#)

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Summary

Every day, around the clock, people who work in the health care industry provide care for millions of people, from newborns to the very ill. In fact, the health care industry is one of largest providers of jobs in the United States. Many health jobs are in hospitals. Others are in nursing homes, doctors' offices, dentists' offices, outpatient clinics and laboratories.

To work in a health occupation, you often must have special training. Some, like doctors, must have more than 4 years of college.

Bureau of Labor Statistics

Start Here

- Occupational Outlook Handbook: Healthcare Occupations (Bureau of Labor Statistics)
Available in Spanish

Latest News

- Small Number of Doctors Trigger Big Share of Malpractice Payouts (01/27/2016, HealthDay)
- More Than a Quarter of New Doctors May Be Depressed (12/08/2015, HealthDay)
- Many U.S. Primary Care Docs Feel Unprepared for Complex Cases (12/07/2015, HealthDay)
- More News on Health Occupations

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[Life Works: Explore Health and Medical Science Careers](#)

[Mentoring in Medicine Program Encourages Careers in Health](#)

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Environmental Health & Toxicology

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- Accreditation Boards
- Career Resources
- Professional Societies
- International Societies
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Academic Program Directories

Graduate Programs in Toxicology

- Academic and Postdoctoral Programs and Web Sites
Society of Toxicology

Programs in Environmental Science and Environmental Health Sciences

- Association of Environmental Health Academic Programs
- Current Affiliates of the National Council for Science and the Environment
- Environmental Internship Clearinghouse
- National Council for Science and the Environment
- National Environmental Health Science and Protection Accreditation Council (EHAC)

Programs in Medical Toxicology

- Interested in Becoming a Medical Toxicologist?
American College of Medical Toxicology
- Medical Toxicology Education Service
University of Virginia
- Texas Tech University Health Sciences Center Medical Toxicology Fellowship Program
- Training Programs for Medical Toxicology
Compiled by the American College of Medical Toxicology
- Toxikon Medical Toxicology Fellowship Program

Programs in Occupational Medicine and Related Disciplines

- Post-Graduate Training Opportunities in Occupational & Environmental Medicine
Association of Occupational and Environmental Health Clinics
- European Association of Schools of Occupational Medicine (EASOM)

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Education Makes a Difference

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Source: Bureau of Labor Statistics

College & Career Planning Time-Line

Find out what you should be doing for each year of high school to improve your chances of getting into the college of your choice and make the application process easier.

Check Out a Success Story

Meet a real **Biomedical Engineer**:

[Abby Vogel](#)



[Read Interview](#)

"My career goals are to graduate with a Ph.D. in Biological Resources Engineering and to publish as a first author in a leading professional journal.

... After graduating with a Ph.D., I am undecided about whether to pursue a career in academia as a professor, or in industry as a biomedical engineer."

Activities

Apply knowledge of engineering, biology, and biomechanical principles to the design, development, and evaluation of biological and health systems and products, such as artificial organs, prostheses, instrumentation, medical information systems, and health management and care delivery systems.

Minimum Education Required

Bachelor's Degree

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Careers in Genetics

The study of genetics and genomics is improving our understanding of the biology of health and disease, and that of our biological world in ways that was never before possible. These advancements have wide applications to biology, health, and society. Opportunity to use training in genetics and genomics exists in a range of fields, including in medicine, academic research, law, journalism, agriculture, commercial industries, and education to name a few.

Becoming a Scientist

Description: Detailed articles, video interviews with various scientists, and additional information resources for students curious about becoming a scientist

Source: Cold Spring Harbor Laboratory | URL: <http://library.cshl.edu/oralhistory/topic/scientific-experience/becoming-scientist/>

Careers in Human Genetics

Description: Information on careers in human genetics

Source: The American Society of Human Genetics | URL: <http://www.ashg.org/education/careers.shtml>

Genetic Counseling

Description: Genetic counselors are health professionals who help people faced with the possibility of a genetic disease to make informed decisions about their futures.

Source: Genome Research Limited and Wellcome Trust Sanger Institute | URL: <http://www.yourgenome.org/stories/genetic-counselling>

GeneticsCareers.org

Description: Explore real genetics career job postings on this site developed by The American Society of Human Genetics and the Genetics Society of America

Source: GeneticsCareers.org | URL: <http://geneticscareers.org>

Genomic Careers - Find Your Future

Description: Video interviews with genomic professionals, information on genomic careers, a tool for rating your favorite genomic careers, and an opportunity to test your knowledge of careers in this field

Source: National Human Genome Research Institute | URL: <http://www.genome.gov/GenomicCareers/index.cfm>

Genomics: Towards a Healthier You

Description: A webcast presenting information on why genetics is important to health, plus information on genetic counseling as a career. The singer and performer T-Boz shares her personal story about living with sickle cell anemia as one example of genetic health issues.

Source: National Human Genome Research Institute | URL: <https://www.youtube.com/watch?v=Q5ZrowNN7MQ>

GeneEd

NLM Traveling Exhibit: Changing the Face of Medicine

CELEBRATING AMERICA'S WOMEN PHYSICIANS



Changing *the face*
of Medicine

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Careers

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Higher Education

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Is a Medical Career for you?

Undergraduate Education

Medical School

Residency & Fellowships

Practicing Medicine

* CAREERS

Think you might be interested in becoming a part of the medical world? Explore the resources below.

* IS A MEDICAL CAREER FOR YOU?

- ◇ What is a career in medicine like? Why do people choose medicine? What can I do to get some hands-on experience in a medical environment? How expensive is it? Access information to help you learn more about this fascinating field.

* UNDERGRADUATE EDUCATION

- ◇ The first step to a promising career in medicine is to get a good undergraduate education. Find helpful tips and practical information on the types of courses to take while you are an undergraduate, how to get into a medical school, the broad range of medical careers open to you, and how to finance the first phase of your education.

* MEDICAL SCHOOL

- ◇ Once you are in medical school, you will be launched on a challenging and rewarding path. Learn now about elective opportunities in the fourth year, medical specialties, combined M.D./Ph.D. programs, research and training programs, and medically focused financial aid opportunities.

* RESIDENCY AND FELLOWSHIPS

- ◇ Once you complete medical school, you need to enter a residency program that is three to seven years long depending on the medical specialty you choose. After that, you may elect to gain one to three years of additional medical training if you want to become highly specialized. Find out how medical students secure residencies and learn about fellowship opportunities, the requirements for certification in a specialty, and the resources and organizations available to help you along the way.

* PRACTICING MEDICINE

NLM Traveling Exhibit: Native Voices

NATIVE PEOPLES' CONCEPTS OF HEALTH AND ILLNESS



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LESSON PLANS & ADDITIONAL RESOURCES

ONLINE ACTIVITIES

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HEALTH HEADLINES

High School

American Indian Science and Engineering Society (AISES) Pre-College Programs
<http://www.aises.org/what/programs/precollege>
AISES offers a variety of programs for Native high school students, including annual national and international science and engineering fairs, summer math and science camps, and technology-based initiatives.

ASPIRINGDOCS.ORG® by the Association of American Medical Colleges (AAMC)
<http://www.aspiringdocs.org>
ASPIRINGDOCS.ORG® is supported by AAMC to increase diversity in medicine. The FAQs & Resources section will help high school students consider a career in medicine, as well as help them navigate through the process of getting into and paying for medical school.

Association of American Indian Physicians (AAIP) Patty Iron Cloud National Native American Youth Initiative
<http://aaip.site-ym.com/?page=NNAYI>
This annual program takes place in Washington, D.C. and is designed for American Indian and

Medicine/Health

Anatomy

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Blood

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Summary

Your blood is made of water, salts, and blood cells, which carry oxygen and nutrients to your cells.

Red blood cells are made in the bone marrow. They live for about 120 days. If you have a blood infection and a wound, blood cells are constantly dying and being replaced about every 6 days.

Problems with your blood can cause you to lose too much weight or feel too tired.

Start Here

- Blood
- Available

Gas

Also called: Belch, Burp, Eructation, Flatulence, Flatus

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For You

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Summary

Everyone has gas. Most people pass gas 13 to 21 times a day. Passing gas through the mouth is called belching or burping. Passing gas through the anus is called flatulence. Most of the time gas does not have an odor. The odor comes from bacteria in the large intestine that release small amounts of gases that contain sulfur.

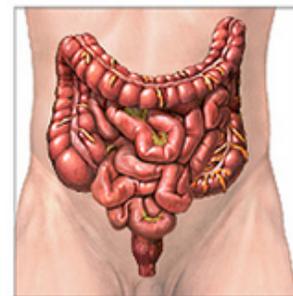
Gas in the digestive tract comes from two sources: air that you swallow and the breakdown of undigested food by bacteria in the large intestine. Certain foods may cause gas. Foods that produce gas in one person may not cause gas in another.

You can reduce the amount of gas you have by

- Drinking lots of water and non-fizzy drinks
- Eating more slowly so you swallow less air when you eat
- Avoiding milk products if you have lactose intolerance

Medicines can help reduce gas or the pain and bloating caused by gas. If your symptoms still bother you, see your health care provider.

NIH: National Institute of Diabetes and Digestive and Kidney Diseases



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MEDICAL ENCYCLOPEDIA

Abdominal bloating

Belching

Bland diet

Gas - flatulence

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Quiz
After a person has been infected with mono, how long does it take for symptoms to show up?
A 1 to 2 weeks
B 2 to 4 weeks
C 4 to 6 weeks

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Understanding research results

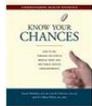
Studies, numbers and health claims—we're flooded with them every day. Don't be misled or confused. Use the lively and interesting books on this page to make sense of it all.

One of these books has even been clinically proven to increase readers' data interpretation skills! See the [Know Your Chances randomized trials](#).

The books are all complete and online free here.



Know your chances



[Understanding health statistics](#)
How to see through hype

Testing treatments



[Better research for better healthcare](#)
How we can know if a treatment works

Smart health choices



[Making sense of health advice](#)

Things you need to know



How to read health news
What to know about screening
Why randomization is important

PubMed Health Blog...



Swedish health and social care assessment agency SBU joins PubMed Health. We are delighted to welcome the Swedish Council on Health Technology Assessment (SBU) to PubMed Health.

The... [read all...](#)

Environmental Health

Environmental Health & Toxicology

U.S. Department of Health & Human Services www.hhs.gov

Environmental Health & Toxicology

SPECIALIZED INFORMATION SERVICES

National Library of Medicine
National Institutes of Health

SIS Home | About Us | A-Z Index | SIS News | Contact Us

SIS Home > Environmental Health and Toxicology Text size: [S](#) [M](#) [L](#) [XL](#)
Expand/Collapse

Especially for students and educators

Starting Points

Environmental Health Student Portal
Educational resources for middle school students and teachers on how the environment effects health

Tox Town
Interactive guide to toxic substances and environmental health issues in everyday places

ToxMystery
Provides a fun experience while teaching about household chemical hazards. For children from 7-11 years old

Toxicology Tutorials
Basic toxicology principles written at the introductory college student level

Household Products Database
Safety and health information for products used in and around the home

TOXMAP
Geographic representation of TRI data with links to other TOXNET resources

- TOXMAP: Resources for Teachers

Topics of Interest

[Find Information About... Especially For...](#)
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[Other Professional Resources](#)
[Resources for the Public](#)
[Enviro-Health Links](#)
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More

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[Database Descriptions](#)
[Which Resource Should I Use?](#)
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A to Z Index of Resources

[A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#)
[J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#)
[S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#) <#>

Environmental Health Student Portal



National Library of Medicine

Environmental Health Student Portal

Connecting Middle School Students to Environmental Health Information

Home

Air Pollution

Chemicals

Climate Change

Water Pollution

Videos

Games

Experiments

For Teachers



Search

Go



Print this Page

What is Environmental Health ?

Environmental Health is the interrelationship between human health and the environment, either natural or manmade.

[Learn More](#)



Interested in a trailer of our animations about characteristics, uses, and health effects of hazardous chemicals? **Please, click here to preview.**



Air Pollution



Chemicals



Climate Change



Water Pollution

ToxTown



Unit 1: Water Quality

Unit 2: Air Quality

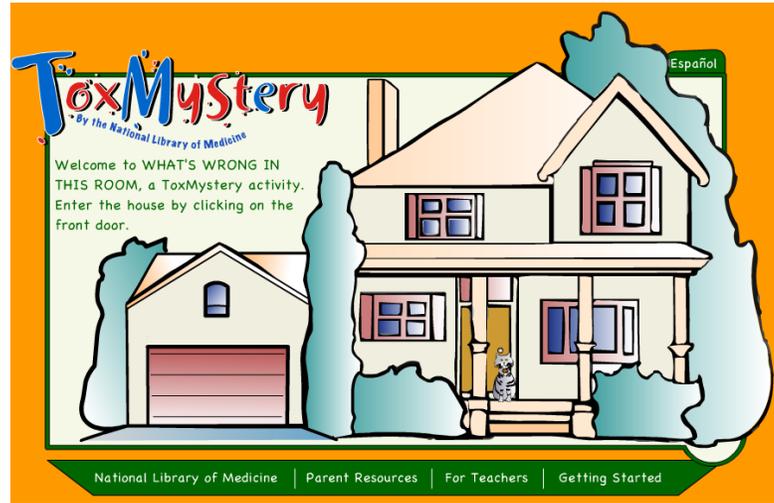
Unit 3: Chemicals in Your Home

Unit 4: Food Safety

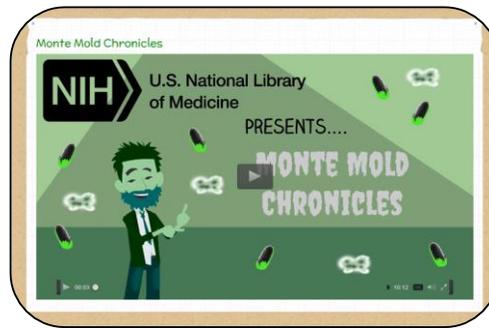
Unit 5: Runoff, Impervious Surfaces, and Smart Development

Unit 6: The Great Debate: Bottled Water vs. Tap Water in Our Schools

Educational Games



NLM Animation



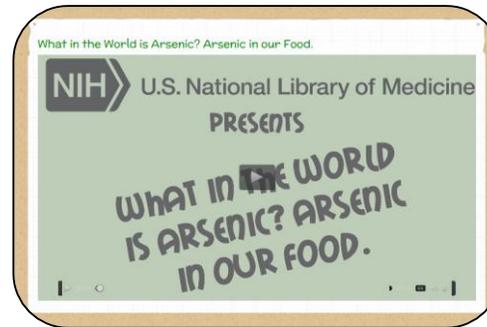
Mold



Ozone



Particulate Matter



Arsenic



Lead



Mercury



Pesticides



Plastics

Household Products Database (HPD)

U.S. Department of Health & Human Services www.hhs.gov

 **Household Products Database**
Health & Safety Information on Household Products

National Institutes of Health
National Library of Medicine
Specialized Information Services 

[Home](#) [Products](#) [Manufacturers](#) [Ingredients](#) [Health Effects](#)

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Browse A-Z
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[Ingredients](#)

Support
[About the Database](#)
[FAQ](#)

What's under your kitchen sink, in your garage, in your bathroom, and on the shelves in your laundry room? Learn more about what's in these products, about potential health effects, and about safety and handling.

 Auto Products Brake Fluid, De-icer, Lubricant, Sealant, and more...	 Inside the Home Air Freshener, Bleach, Cleaners, Toilet Bowl Cleaner, and more...	 Pesticides Animal Repellant, Fungicide, Herbicide, Insecticide, and more...
 Landscape/Yard Fertilizer, Lawn Care, Swimming Pool Products, and more...	 Personal Care Antiperspirant, Hair Spray, Makeup, Shampoo, Soap and more...	 Home Maintenance Caulk, Grout, Insulation, Paint, Putty, Stain, and more...
 Arts & Crafts Adhesive, Glaze, Glue, Primer, Varnish, and more...	 Pet Care Flea & Tick Control, Litter, Stain/Odor Remover, and more...	 Home Office Ink, Toner, Correction Fluid, Electronics Cleaners, Pens and more...

For advice if someone is poisoned, call your local Poison Center at 1-800-222-1222.

TOXNET

The screenshot shows the TOXNET website homepage. At the top left is the NIH U.S. National Library of Medicine logo. To its right is the TOXNET TOXICOLOGY DATA NETWORK logo. On the far right of the top navigation bar are links for Mobile, Help, FAQs, TOXNET Fact Sheet, and Training Manual & Schedule. Below the navigation bar is a large molecular structure graphic on the left and a 'Welcome to TOXNET' heading on the right, with a sub-heading: 'Your resource for searching databases on toxicology, hazardous chemicals, environmental health, and toxic releases'. A 'Share' button is located to the right of the welcome text. Below this is a search bar with a dropdown menu set to 'ALL DATABASES' and a 'Search' button. The search bar contains the text 'e.g. benzene, endocrine disruptor'. Below the search bar is a section titled 'TOXNET Databases' which lists various databases in a two-column format. On the right side of the page, there are two promotional boxes: 'Environmental Health & Toxicology' with a 'Visit Site' button, and 'Did you know' with a question mark icon and text about a guide to choosing a database and a link to 'More FAQs'.

NIH U.S. National Library of Medicine

TOXNET TOXICOLOGY DATA NETWORK

Mobile | Help | FAQs | TOXNET Fact Sheet | Training Manual & Schedule

Share

Welcome to TOXNET

Your resource for searching databases on toxicology, hazardous chemicals, environmental health, and toxic releases

SEARCH TOXNET Search all or select specific databases

BROWSE

ADVANCED SEARCH

e.g. benzene, endocrine disruptor

ALL DATABASES

Search

TOXNET Databases

MOST VISITED BY TOXNET USERS	HSDB Hazardous Substances Data Bank. Peer-reviewed toxicology data for over 5,000 hazardous chemicals
	TOXLINE 4 million references to literature on biochemical, pharmacological, physiological, and toxicological effects of drugs and other chemicals
	ChemIDplus Dictionary of over 400,000 chemicals (names, synonyms, and structures)
BREASTFEEDING & DRUGS	LactMed Drugs and Lactation Database. Drugs and other chemicals to which breastfeeding mothers may be exposed
DEVELOPMENTAL TOXICOLOGY LITERATURE	DART Developmental and Reproductive Toxicology Database. References to developmental and reproductive toxicology literature
CHEMICAL RELEASES & MAPPING	TOXMAP TOXMAP: Environmental Health Maps provides searchable, interactive maps of EPA TRI and Superfund data, plus US Census and NCI health data
	TRI Toxics Release Inventory. Annual environmental releases of over 600 toxic chemicals by U.S. facilities
GENOMICS	CTD Comparative Toxicogenomics Database. Access to scientific data describing relationships between chemicals, genes and human diseases
HOUSEHOLD PRODUCT SAFETY	Household Products Database Potential health effects of chemicals in more than 10,000 common household

Environmental Health & Toxicology

Resources on environmental health and toxicology

Visit Site

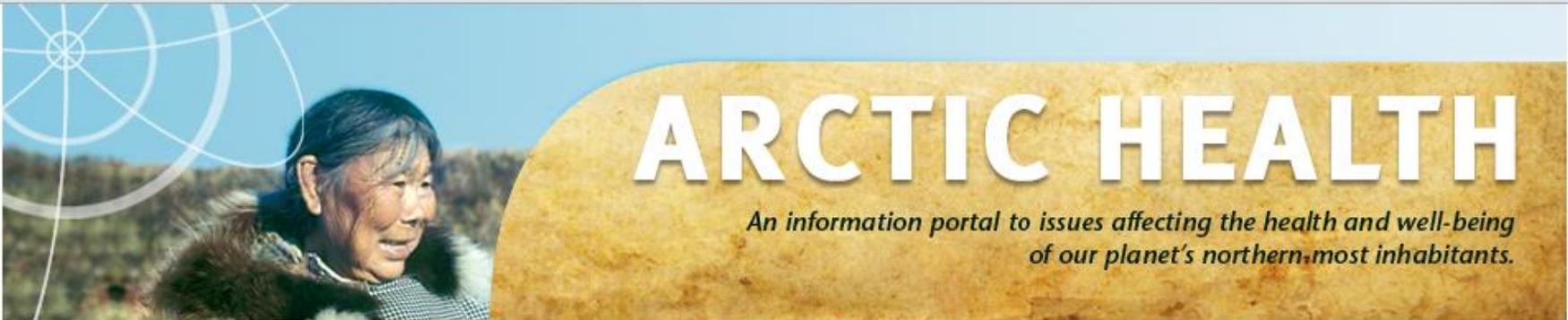
Did you know

There is a guide to choosing a database

Which Resource Should I Use can help you pick the right resource for your search.

More FAQs

Arctic Health



ARCTIC HEALTH

An information portal to issues affecting the health and well-being of our planet's northernmost inhabitants.

[About Us](#) | [Link Selection](#) | [Acronyms & Abbreviations](#) | [FAQs](#) | [Contact Us](#)

 Text size: [S](#) [M](#) [L](#) [XL](#)

Home

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[Climate Change](#) ▶

[Food, Air, and Water](#) ▶

[Traditional Healing](#) ▶

[Multimedia](#) ▶

[Governments and Organizations](#) ▶

Welcome!

The Arctic Health website is a central source for information on diverse aspects of the Arctic environment and the health of northern peoples. The site gives access to evaluated health information from hundreds of local, state, national, and international agencies, as well as from professional societies and universities. In addition, our own always expanding [Arctic Health Publications Database](#), (currently more than 250,000 records), can help you find Arctic-specific articles, out of print publications and information from special collections held in the [Alaska Medical Library](#).

The Arctic Health website is sponsored by the National Library of Medicine's [Division of Specialized Information Services](#) and maintained by the University of Alaska Anchorage's [Alaska Medical Library](#).



Last updated: January 16, 2015 First Published: July 12, 2002

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For more information, to send comments, or for technical support, please contact: ayahw@uaa.alaska.edu

 **Alaska Medical Library**
University of Alaska Anchorage

 United States
National Library of Medicine
National Institutes of Health

Genomics/Genetics

Genetics Home Reference



Your Guide to Understanding Genetic Conditions

Search



Health Conditions

Genes

Chromosomes & mtDNA

Resources

Help Me Understand Genetics

Genetics Home Reference provides consumer-friendly information about the effects of genetic variation on human health.



Health Conditions

More than 1,100 health conditions, diseases, and syndromes

[Browse A-Z](#)



Genes

More than 1,300 genes and the health effects of genetic



New & Updated

New

[cryptogenic cirrhosis](#)

[fibrochondrogenesis](#)

[DOLK-congenital disorder of glycosylation](#)

Past 12 Months

Updated

[Moebius syndrome](#)

[Poland syndrome](#)

[spondyloepiphyseal dysplasia congenita](#)

GeneEd



Genetics, Education, Discovery

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GO



Cell Biology

The study of the cell, including mitosis and meiosis



Genetic Conditions

Conditions caused by gene variations or mutations



DNA Forensics

The application of genetic testing for legal purposes



DNA, Genes, Chromosomes

The building blocks of inheritance



Evolution

Processes by which organisms are changed over time



Top Issues In Genetics

Select genetic topics of popular interest



Heredity/Inheritance Patterns

The genetic transmission of traits



Biostatistics

The use of mathematics to investigate life science related problems



Epigenetics/Inheritance and the Environment

The genome's dynamic response to the environment



Biotechnology

Biological techniques used to enhance products



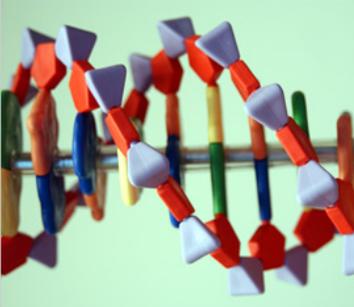
National Human Genome Research Institute

NIH National Human Genome Research Institute
Advancing human health through genomics research

SEARCH GENOME.GOV

Research Funding | Research at NHGRI

Education



National DNA DAY APRIL 25

Celebrating Genomics Through Awareness

Connect with DNA Day
Twitter Facebook Email

Find Events | Plan An Event | Celebrate With NHGRI | Get Activity Ideas | Learn The History | Visit Newsroom

National DNA Day is a unique day when students, teachers and the public can learn more about genetics and genomics! The day commemorates the completion of the Human Genome Project in April 2003, and the discovery of DNA's double helix in 1953.
[Subscribe to our newsletter!](#)



Feature
NHGRI & ASHG seek education fellowship applicants



NHGRI and the American Society of Human Genetics (ASHG) are now accepting applications for the 2016 Genetics Education Fellowship. The application period is now until April 25, 2016. See: [The Genetics & Education Fellowship](#)

LabGenius: The next step toward a digital laboratory



The HHS Ignite Accelerator program, inspired by Silicon Valley start-up methods, nurtures innovative ideas that might improve government operations. Now this seed funding mentorship program could help create a digital "LabGenius" and, according to NIH Director Francis Collins, "has the potential to streamline our laboratory operations which could have a big impact." [Read more](#)

Find Events In Your Area



The National DNA Day Network has events all over the country. Find an event near you to celebrate DNA Day.

Chat With Geneticists in the "Ask Me Anything" Series



Join NHGRI, pgEd, and ASHG for a week-long National DNA Day "Ask Me Anything" (AMA) Series on reddit /r/Science.

Join @DNADay For a Twitter Chat
#DNADay16

Check out our 2016 DNA Day Lecture
Harry Potter

NLM Traveling Exhibits

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Home > About Us > Exhibition Program > Harry Potter's World: Renaissance Science, Magic, and Medicine

HARRY POTTER'S WORLD RENAISSANCE SCIENCE, MAGIC, AND MEDICINE

Home Exhibition Education Resources Traveling Information Exhibition Program

“There was a lot more to magic,
as Harry quickly found out,
than waving your wand
and saying a few funny words.”
—Harry Potter and the Philosopher's Stone,
J. K. Rowling



Illustration of an owl
Konrad Gesner,
Historiae Animalium, 1551

EXHIBITION



EDUCATION RESOURCES



HARRY POTTER'S WORLD RENAISSANCE SCIENCE, MAGIC, AND MEDICINE

Home Exhibition Education Resources Traveling Information Exhibition Program

MIDDLE & HIGH SCHOOL HIGHER EDUCATION ONLINE ACTIVITIES BIBLIOGRAPHY

EXPLORE MORE EXHIBITIONS MORE EDUCATIONAL RESOURCES

Harry Potter's World presents the following instructional resources for the educators in middle- and high-schools, and in higher education institutions. The resources provide suggested instructional guides and materials that an educator may adapt in whole or in parts as he or she deems most appropriate for the students' interest, level, and academic goals.

Middle & High School Lesson Plans

- *Bogart and Fear in Harry Potter* and *Genetic Traits in Harry Potter* are two lesson plans prepared for middle- and high-school teachers. Each lesson plan contains background information and resources related to *Harry Potter* or a academic topic, national standards, learning outcomes, step-by-step procedures, and all classroom materials.
- The lesson plans are developed in collaboration with Sahar Saddiqui and Annabella Kraut—English and Science teachers, respectively—at Charles E. Smith Jewish Day School in Rockville, Maryland.

Higher Education Module

- “*Things Most Strange and Wondrous*”, is a course module designed to introduce undergraduate and graduate students to the various magical and esoteric traditions that shaped past thinkers' conceptions of the study of nature in the Renaissance and early modern periods. Inspired by the National Library of Medicine's exhibition, *Harry Potter's World: Renaissance Science, Magic, and Medicine*, which explores the history of science and medicine through the lens of the *Harry Potter* novels by J. K. Rowling, this module is prepared primarily for higher education instructors with a strong background in Renaissance and early modern intellectual and cultural history (spanning roughly 1450-1700 C.E.). Familiarity with the *Harry Potter* novels is neither assumed nor required, though it would be an advantage.
- This module is developed in collaboration with [Mark A. Waddell, Ph.D.](#), who currently teaches in the Lyman Briggs College of Science at Michigan State University.

Online Activities

- [Desire for Knowledge](#) and [Different Perspectives](#) are guided online activities that navigate parts of *Harry Potter's World* with a specific interpretive plan.

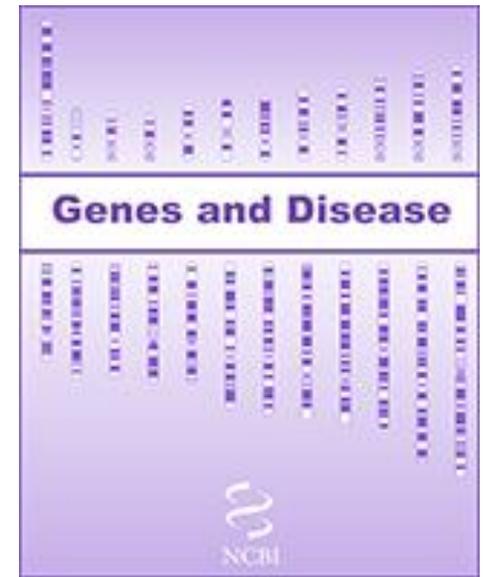
Bibliography

- Elizabeth Bland, curator of the *Harry Potter's World* exhibition, provides a suggested reading list that can serve as a starting point for those who are interested in going beyond the *Harry Potter* novels.

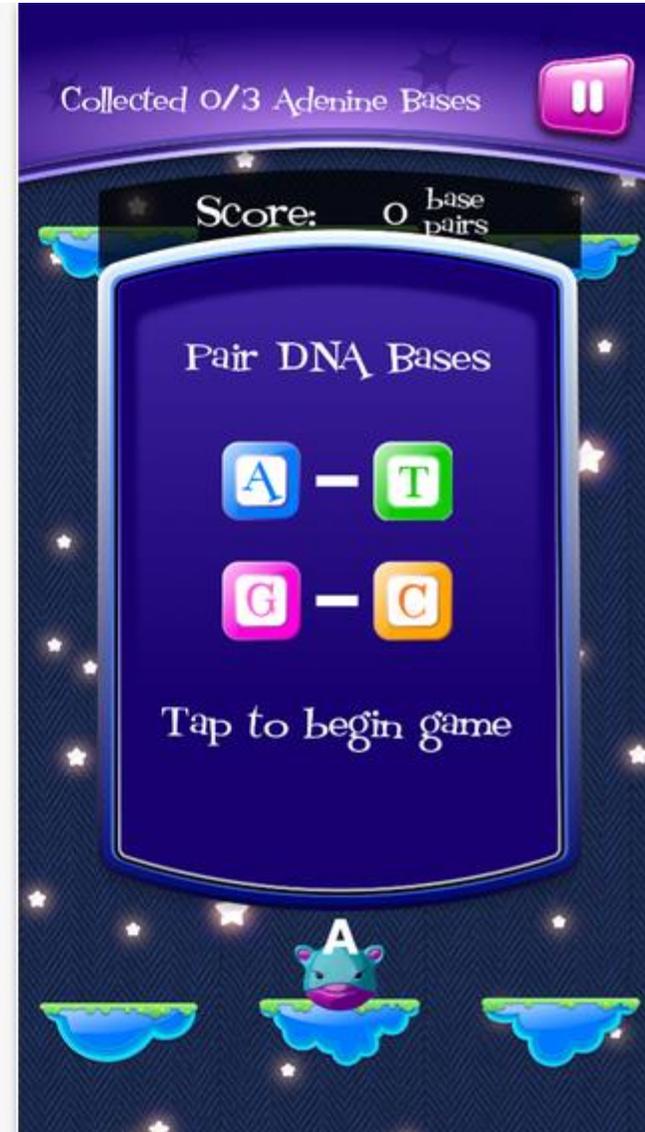
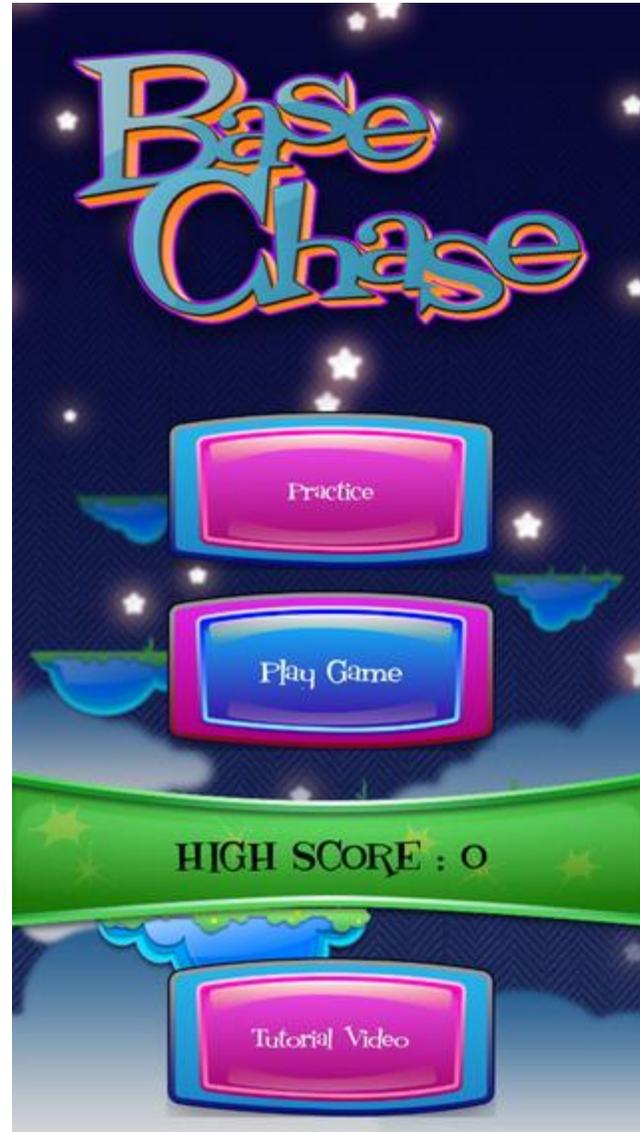
NCBI Bookshelf

Genes and Diseases

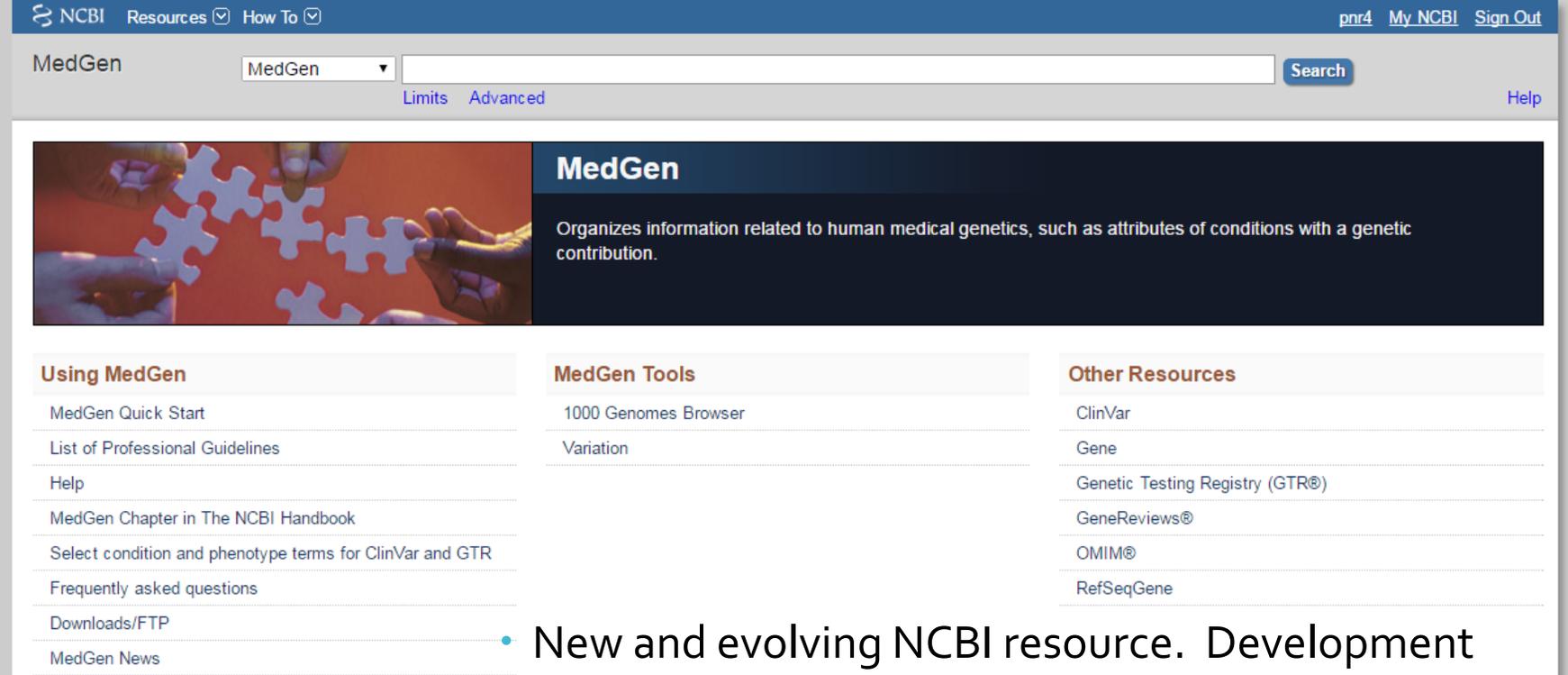
- Organized by the parts of the body that genetic disorders affect.
- Over 80 genetic disorder summaries.
- Images and interesting facts.
- PDF downloads of chapters.
- Links to related research literature and pertinent websites.



Base Chase



MedGen



The screenshot shows the MedGen website interface. At the top, there is a navigation bar with links for "NCBI", "Resources", and "How To". On the right side of the navigation bar, there are links for "pnr4", "My NCBI", and "Sign Out". Below the navigation bar, there is a search bar with the text "MedGen" and a "Search" button. To the right of the search bar, there are links for "Limits" and "Advanced". Below the search bar, there is a banner image showing hands holding puzzle pieces. To the right of the banner image, there is a dark blue box with the text "MedGen" and a description: "Organizes information related to human medical genetics, such as attributes of conditions with a genetic contribution." Below the banner image, there are three columns of links. The first column is titled "Using MedGen" and includes links for "MedGen Quick Start", "List of Professional Guidelines", "Help", "MedGen Chapter in The NCBI Handbook", "Select condition and phenotype terms for ClinVar and GTR", "Frequently asked questions", "Downloads/FTP", and "MedGen News". The second column is titled "MedGen Tools" and includes links for "1000 Genomes Browser" and "Variation". The third column is titled "Other Resources" and includes links for "ClinVar", "Gene", "Genetic Testing Registry (GTR®)", "GeneReviews®", "OMIM®", and "RefSeqGene".

- New and evolving NCBI resource. Development began in 2012.
- Information about human disorders and features or symptoms that have a genetic component.
- Designed for health care professionals and the medical genetics community.
- Compiles information from multiple sources: GeneReviews, OMIM, Genetic Testing Registry, ClinVar, Genetics Home Reference, practice guidelines, and PubMed.

Links from PubMed

NCBI Resources How To

PubMed.gov
US National Library of Medicine
National Institutes of Health

PubMed

Advanced



PubMed

PubMed comprises more than 26 million citations for biomedical literature from MEDLINE, life science journals, and online books. Citations may include links to full-text content from PubMed Central and publisher web sites.

You are here: NCBI > Literature > PubMed

[Write to the Help Desk](#)

GETTING STARTED

- [NCBI Education](#)
- [NCBI Help Manual](#)
- [NCBI Handbook](#)
- [Training & Tutorials](#)
- [Submit Data](#)

RESOURCES

- [Chemicals & Bioassays](#)
- [Data & Software](#)
- [DNA & RNA](#)
- [Domains & Structures](#)
- [Genes & Expression](#)
- [Genetics & Medicine](#)
- [Genomes & Maps](#)
- [Homology](#)
- [Literature](#)
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- [Variation](#)

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- [Nucleotide](#)
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- [Gene](#)
- [Protein](#)
- [PubChem](#)

FEATURED

- [Genetic Testing Registry](#)
- [PubMed Health](#)
- [GenBank](#)
- [Reference Sequences](#)
- [Gene Expression Omnibus](#)
- [Map Viewer](#)
- [Human Genome](#)
- [Mouse Genome](#)
- [Influenza Virus](#)
- [Primer-BLAST](#)
- [Sequence Read Archive](#)

NCBI INFORMATION

- [About NCBI](#)
- [Research at NCBI](#)
- [NCBI News](#)
- [NCBI FTP Site](#)
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National Center for Biotechnology Information, U.S. National Library of Medicine
8600 Rockville Pike, Bethesda MD, 20894 USA

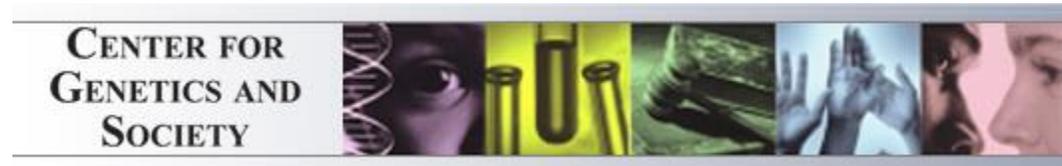
[Policies and Guidelines](#) | [Contact](#)



Literacy/ Education Resources



Public Health Genomics



Interdisciplinary Resources

NLM Traveling Exhibits

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SEARCH



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find an exhibition near you

medicine & the arts



FRANKENSTEIN: Penetrating the Secrets of Nature



AND THERE'S THE HUMOR OF IT: Shakespeare and the Four Humors

science & society



PICK YOUR POISON: Intoxicating Pleasures & Medical Prescriptions



FROM DNA TO BEER: Harnessing Nature in Medicine and Industry

patients & practitioners



CONFRONTING VIOLENCE: Improving Women's Lives



PICTURES OF NURSING: The Zwerdling Postcard Collection

the technology of medicine



VISIBLE PROOFS: Forensic Views of the Body



THE ONCE AND FUTURE WEB: Worlds Woven by Telegraph and Internet

NLM Traveling Exhibits

HOME | EXHIBITION | EDUCATION | DIGITAL GALLERY | CREDITS | TRAVELING INFO

EXHIBITION PROGRAM

FRANKENSTEIN:

PENETRATING *the* SECRETS of NATURE.

On a dark and stormy night in 1816, Mary Shelley began writing a story that posed profound questions about individual and societal responsibility for other people.

EXPLORE THE EXHIBITION

SEE THE DIGITAL GALLERY

FIND EDUCATIONAL RESOURCES

NLM Traveling Exhibits

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[Exhibition](#)

[Education](#)

[Traveling Info](#)

[Credits](#)

[Exhibition Program](#)



LIFE AND LIMB

THE TOLL OF THE AMERICAN CIVIL WAR

The perspectives of surgeons, physicians, and nurses are richly documented in the history of American Civil War medicine, which highlights the heroism and brutality of battlefield operations and the challenges of caring for the wounded during wartime. Yet the experiences of injured soldiers during the conflict and in the years afterwards are less well-known. *Life and Limb: The Toll of the American Civil War* focuses on disabled veterans and their role as symbols of the fractured nation.

Explore the experiences of Civil War veterans in the [online exhibition](#), use [education resources](#) in middle-school, high-school and undergraduate classes, take a closer look at Civil War-era texts in [Digital Documents](#), or find out if the [traveling exhibition](#) is coming to a library near you.

Pictured on the right: Soldiers at Armory Square Hospital, Washington, D.C., 1860s
Courtesy National Library of Medicine



NLM Traveling Exhibits

The screenshot shows the 'For All the People' website. At the top, a banner features the title 'For All the People' in a decorative script, with 'A CENTURY OF CITIZEN ACTION' below it. A navigation bar includes links for HOME, EXHIBITION, EDUCATION, CREDITS, and TRAVELING INFO, along with social media icons for a plus sign and Facebook. An orange 'EXHIBITION PROGRAM' button is in the top right. The main content area is titled 'EDUCATION' and contains a paragraph: 'For All the People presents the following classroom resources for K-12 and undergraduate educators and their students. These resources are designed to be starting points for exploring historical perspectives and existing tools and services for considering people's access to health care in the United States. Educators are welcome to adapt them in whole or in part as appropriate for their students' interests and learning goals.' Below this are four resource categories: LESSON PLANS, HIGHER EDUCATION, ONLINE ACTIVITIES, and OTHER RESOURCES. Each category has a corresponding image: a portrait of a man with glasses, a historical meeting with a 'COUNCIL OF SENIOR' sign, a doctor and a man with babies, and a person in a wheelchair with a sign.

For All the People
A CENTURY OF CITIZEN ACTION

HOME | EXHIBITION | EDUCATION | CREDITS | TRAVELING INFO

EXHIBITION PROGRAM

EDUCATION

LESSON PLANS

HIGHER EDUCATION

ONLINE ACTIVITIES

OTHER RESOURCES

RELATED RESOURCES AT NLM

For All the People presents the following classroom resources for K-12 and undergraduate educators and their students. These resources are designed to be starting points for exploring historical perspectives and existing tools and services for considering people's access to health care in the United States. Educators are welcome to adapt them in whole or in part as appropriate for their students' interests and learning goals.

LESSON PLANS

HIGHER EDUCATION

ONLINE ACTIVITIES

OTHER RESOURCES



Additional Resources

NIH Science Education

RESEARCH & TRAINING

Research & Training

- [Science Highlights](#)
- [Research in NIH Labs & Clinics](#)
- [Training Opportunities](#)
- [Library Resources](#)
- [Research Resources](#)
- [Clinical Research Resources](#)
- [Safety, Regulation & Guidance](#)
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- [Environmental influences on Child Health Outcomes \(ECHO\) Program](#)
- [Accelerating Medicines Partnership \(AMP\)](#)
- [Rigor and Reproducibility](#)
- [Lasker Clinical Research Scholars](#)

Science Education

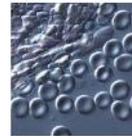
On this page

- [Resources for Students](#)
- [Resources for Educators](#)

Resources for Students



[NIAMS Kids Pages](#)



[Microscope Imaging Station](#)



[Test Your Science IQ!: Cells](#)



[NINDS Brain Resources](#)

From the NIH Director



Francis Collins, M.D., Ph.D., offers a message to high school graduates.

This video was requested by a motivated graduating senior at a high school in Ontario, but it speaks to students everywhere. May 19, 2011.

Featured Site



[NIAMS Kids Pages](#)

Digital Collections

Refine by:

Collections >

Subjects >

Authors >

Titles >

Formats >

Languages >

Genre >

Dates by Range >



Images from the History of Medicine (IHM): Paintings, posters, photos & more... spanning the centuries

Digital Collections is the National Library of Medicine's free online resource of biomedical books and still and moving images. All of the content in Digital Collections is freely available worldwide and, unless otherwise indicated, in the public domain. Digital Collections provides unique access to NLM's rich resources.

NLM Teacher Resources Sheet



Biology

Against the Odds: Making a Difference in Global Health (Grades 9-12+)

How communities work to improve quality of life. Classroom resources included.

apps.nlm.nih.gov/againsttheodds

MedlinePlus® (Grades 6-12+)

Easy to read health information. An excellent source for all ages. Also available in Spanish.

medlineplus.gov

Rewriting the Book of Nature: Charles Darwin and the Rise of Evolutionary Theory (Grades 9-12+)

Explore the scientific discoveries and contributions of Charles Darwin.

nlm.nih.gov/exhibition/darwin/index.html

PubMed®/MEDLINE® (Grades 11-12+)

A citation index for articles from medical and life science journals. View the PubMed tutorial for site navigation.

pubmed.gov

Visible Human Project® (Grades 6-12+)

Complete, anatomically detailed, 3D representations of the normal male and female human bodies.

nlm.nih.gov/research/visible/visible_human.html

Environmental Health Science

Engaging Educational Animations (Grades 6-8)

Educational Animations that convey complex environmental health concepts.

kidsenvirohealth.nlm.nih.gov/generic/3/videos

Environmental Health Student Portal (Grades 6-8)

Connects middle school students to environmental health information.

kidsenvirohealth.nlm.nih.gov

Household Products Database (Grades 6-12+)

Learn about the potential health effects of chemicals in common household products.

hpd.nlm.nih.gov

TOXMAP® (Grades 9-12+)

Uses maps of the United States to visually explore Superfund and Toxic Release Inventory data from the EPA. Includes classroom materials.

toxmap.nlm.nih.gov/toxmap

ToxMystery™ (Grades 1-5)

Interactive site teaching elementary school students about toxic substances in the home. Includes lesson plans and activities.

Support Your Institution and Your Community!

- Help your students/parents/colleagues be informed about health and science
- Provide health/science resources for parents, kids, youth
- Connect with the community through collaboration and information
- Look to NN/LM PNR for great resources and opportunities.



Thank You!

Questions?



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[NN/LM PNR website](https://nnlm.gov/pnr) <https://nnlm.gov/pnr>

[Presentation resources](https://nnlm.gov/pnr/training/presentations)

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